

1983

## 1983 Modulus

Rose-Hulman Institute of Technology

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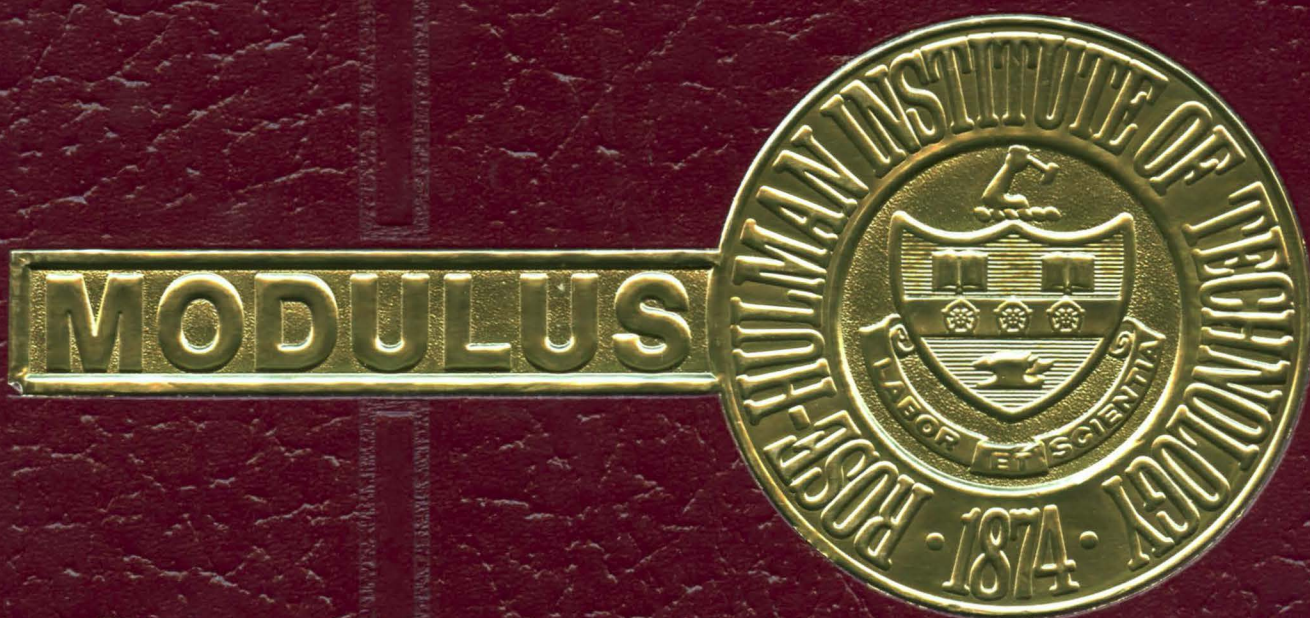
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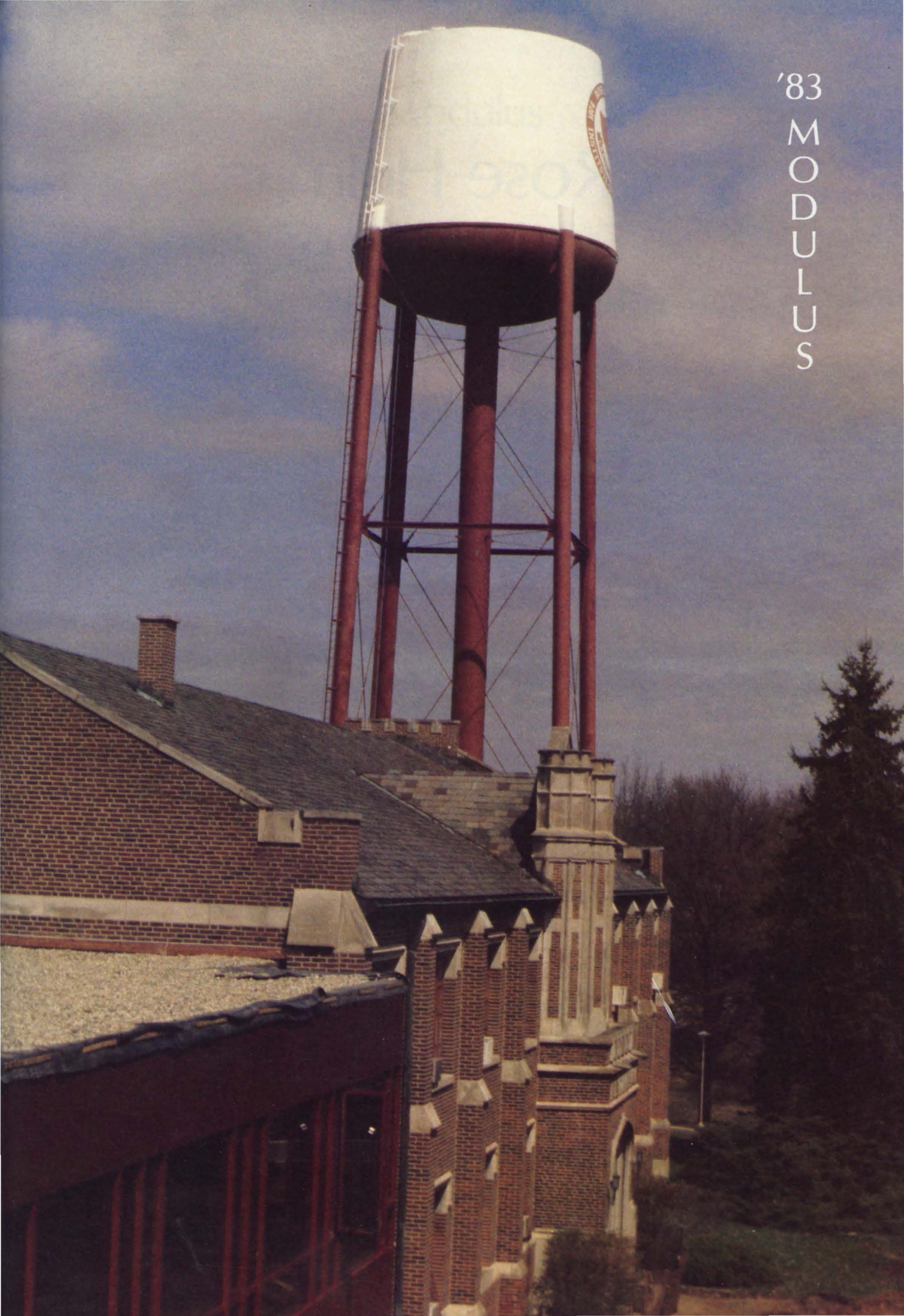
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'83  
MODULUS





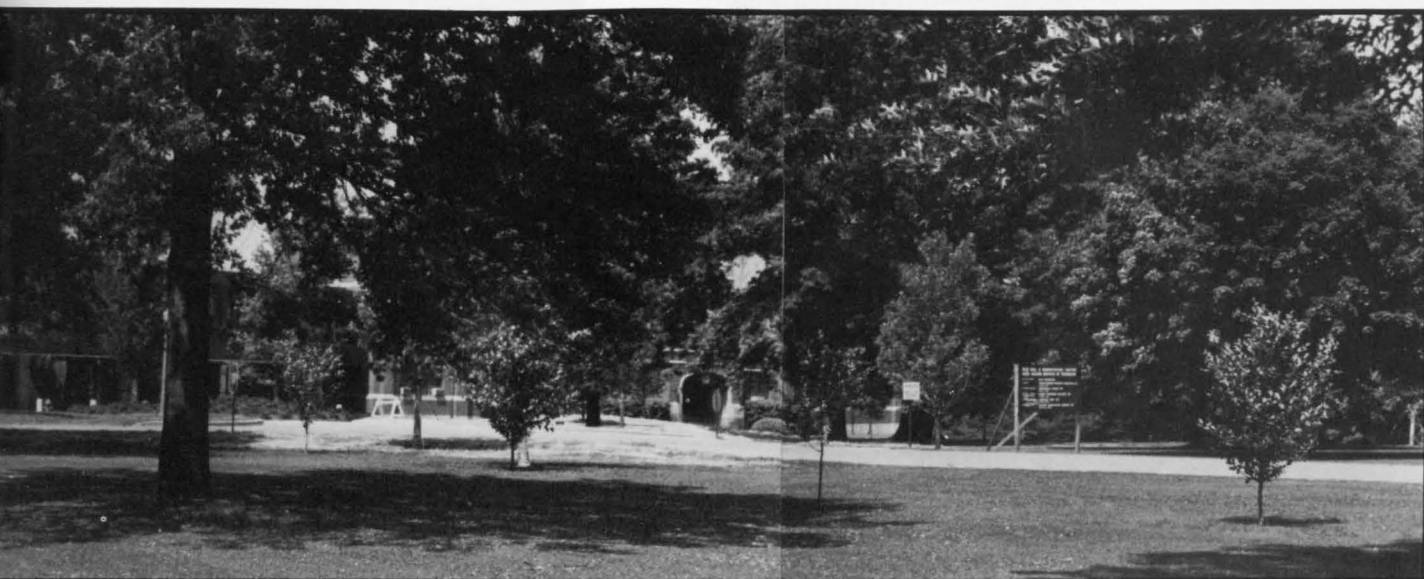
# Rose-Hulman Institute Of Technology





## 1983 Modulus

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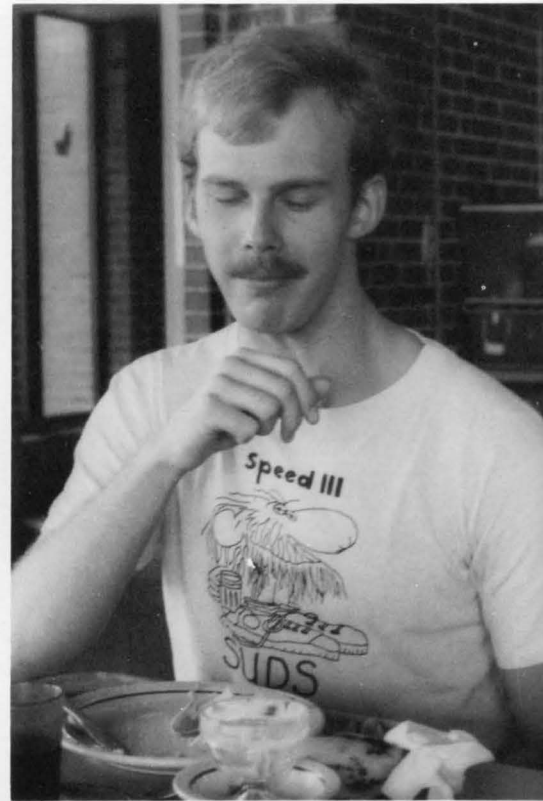


## Rose Snapshots









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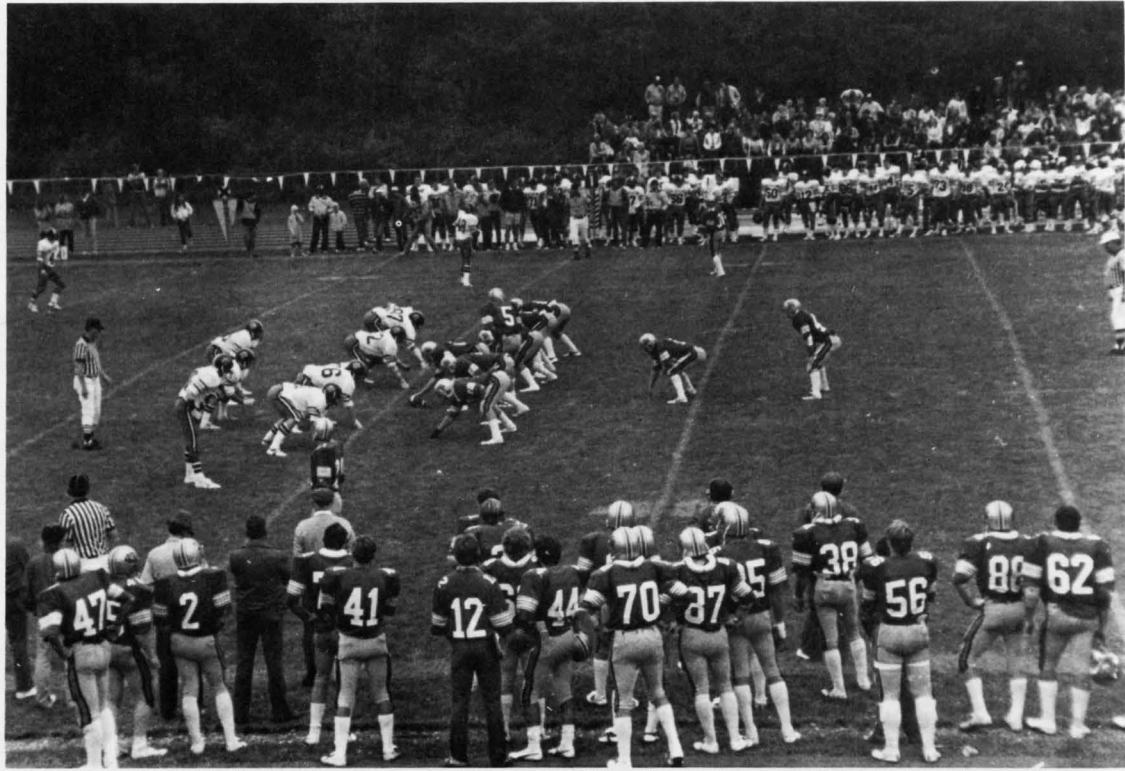


# Homecoming 1982





# Homecoming '82 Is . . . .







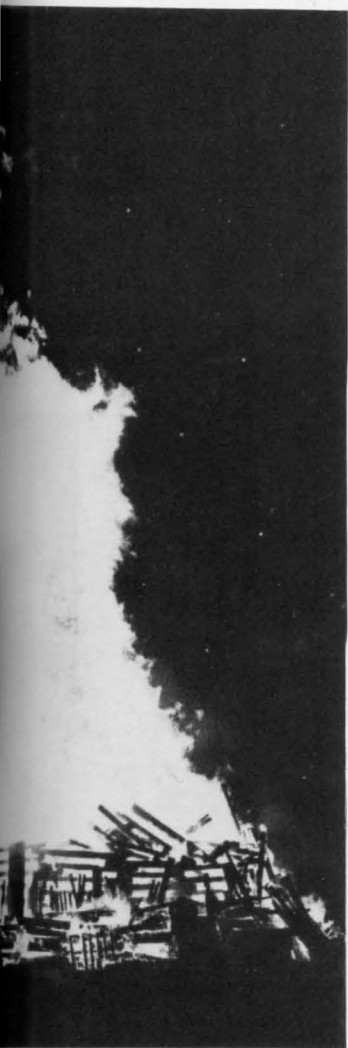
# B O N F I R E

The freshman bonfire is one of the first group activities in which the new class becomes involved. They have a chance to learn to work together and to establish leadership among themselves. This is truly a group experience as each individual learns to rely on one another.

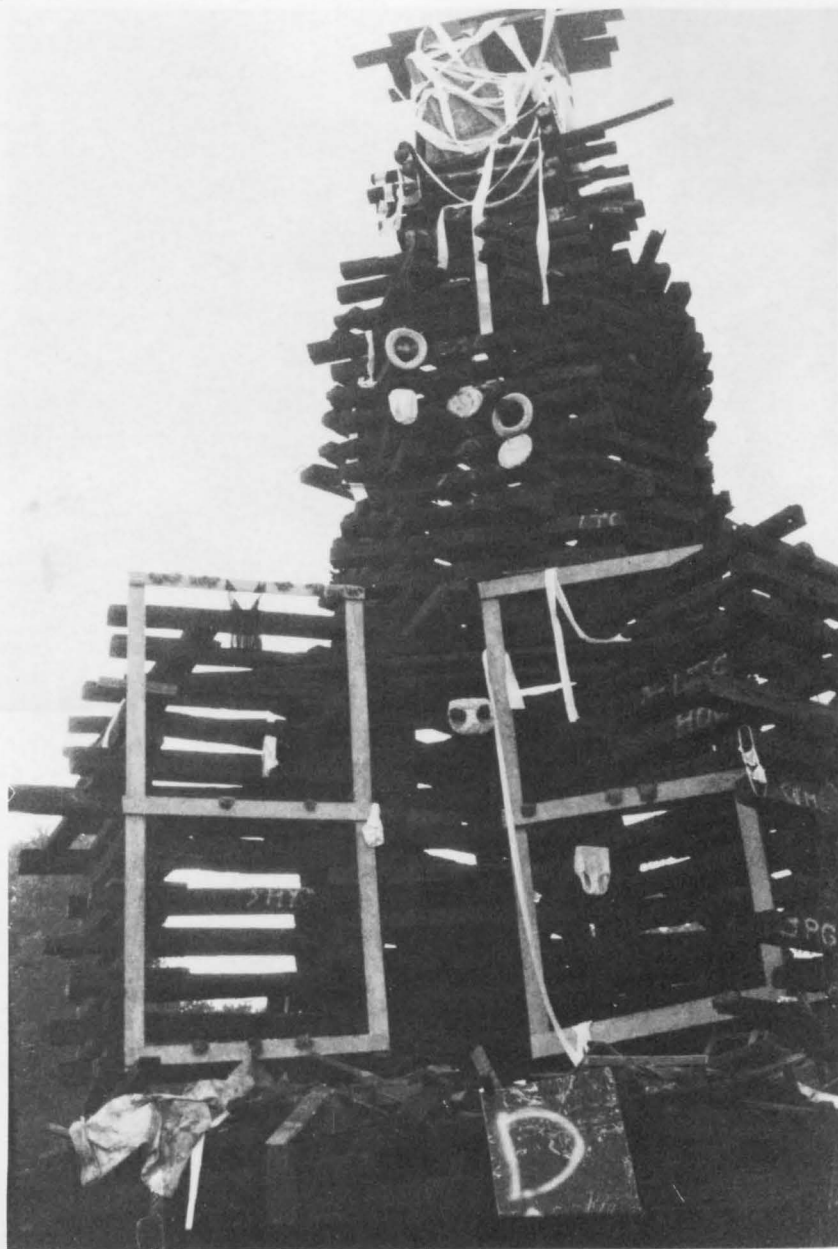
The bonfire is built each year one railroad tie higher. The Class of '86 built its mammoth structure a total of 86 ties high and topped it off with the usual (and hard to find) outhouse. The building of the bonfire is a large task. It involves the collecting of ties and pallets, some 2000 of each are used, and then the process of building the tower and collecting of the "creeked" ties. The duty of every sophomore at this time is to make the construction of the bonfire as difficult as possible, hence they proceed to throw as many ties as possible in the nearby creek and do their best to disassemble the bonfire as it is built. As homecoming quickly approaches the freshmen take up an around-the-clock watch to ward off any potential raiders. When homecoming finally arrives the bonfire is ready and primed for the lighting.







# ENGINEERS









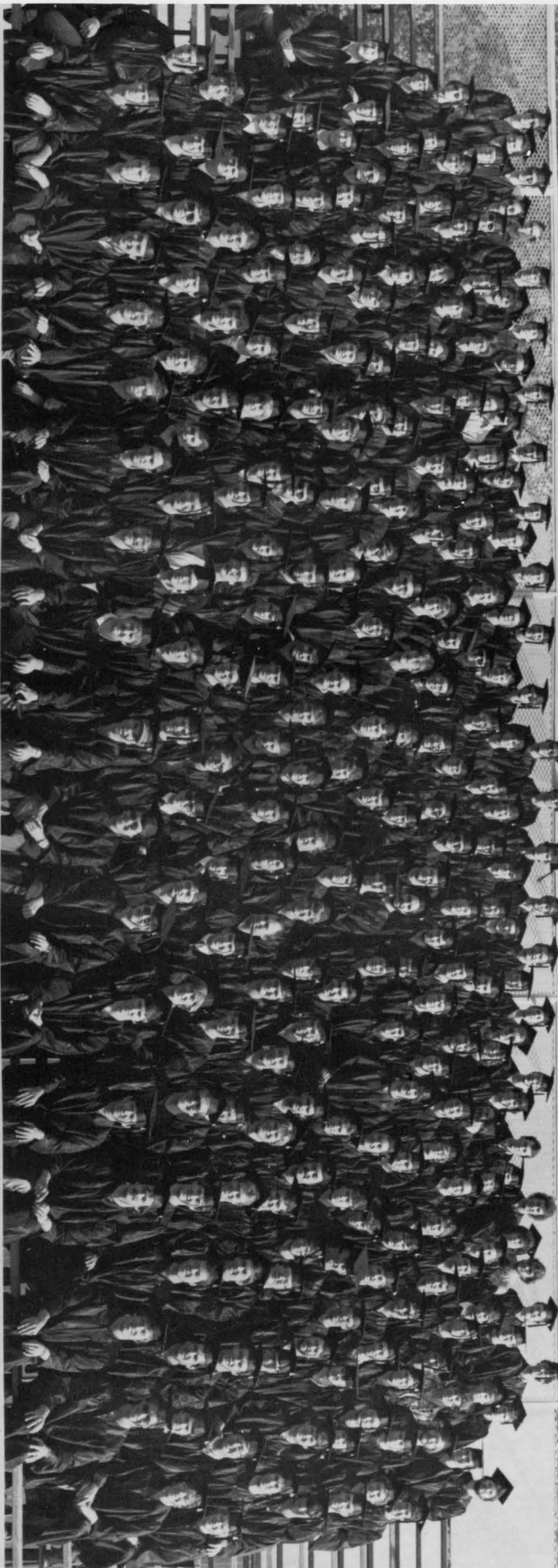


# Our Queen And Homecoming Court

Queen left, Sally French. Court top row L-R, Maryanne Bindley and Joyce Hoggatt, bottom row L-R, Cathi Yatsko and Charla Willison.





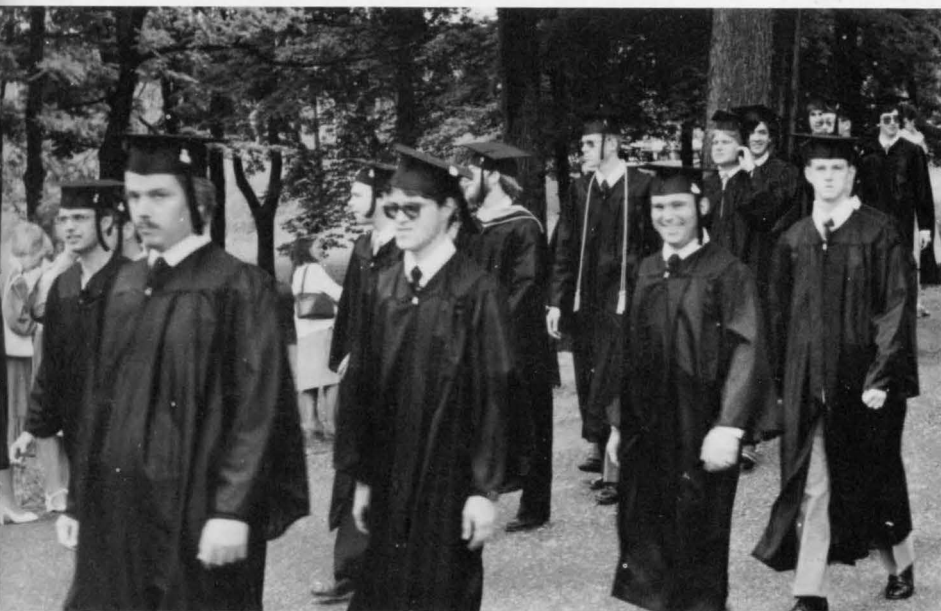


ROSE HULMAN INSTITUTE OF TECHNOLOGY CLASS OF 1983



# One-Hundred and Fifth Commencement

Commencement, May 28, 1983. The culminating of hard work, sleepless all nighters, and pure sweat. It is a looking forward to careers, family, and further studies and backward to see just how far they have come. This is a special day not only for the graduates but also for their parents, who have sacrificed for, guided, and supported their sons.





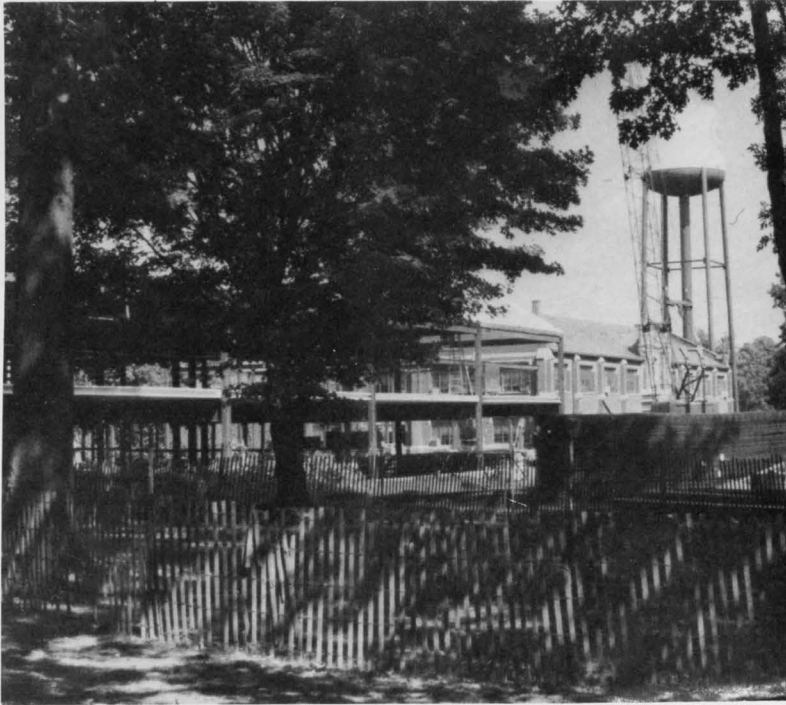
# Olin and Hadley







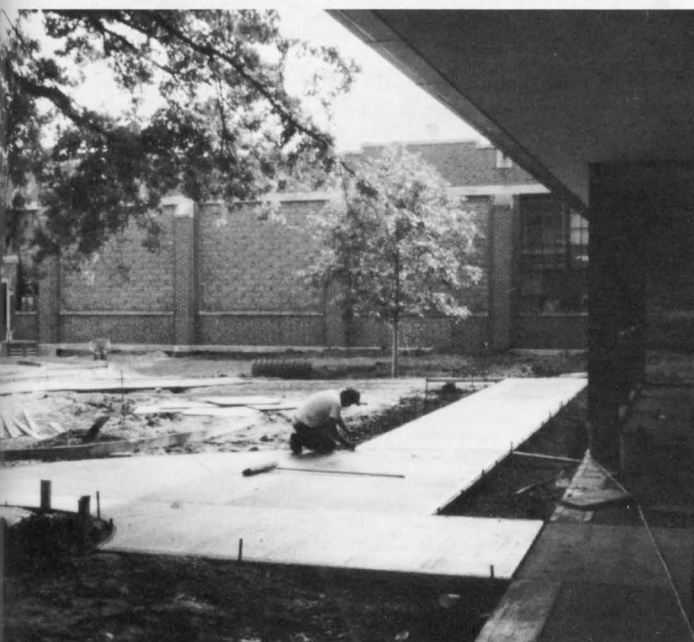
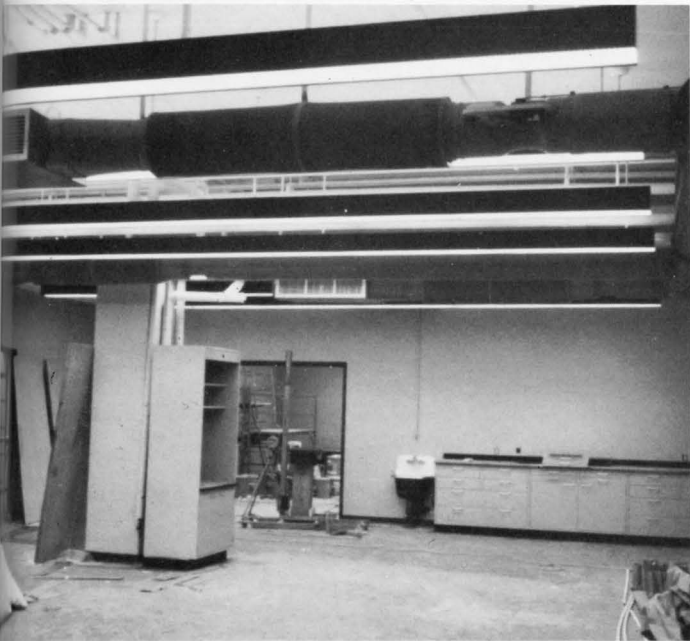




Olin Hall will house classrooms and laboratories for chemical engineering, civil engineering, and the life sciences. The added laboratory space will allow more hands-on type of education. The chemical engineering department will gain a computer lab, special projects labs, and a polymers lab. The civil engineering will expand its soils, asphalt, concrete, strength of materials, structures, and environmental engineering laboratories. The life sciences area will have the greatest improvements especially in its laboratory facilities. The new \$4.75 million building was underwritten by the Olin Foundation. The Olin Foundation provided for the design, construction, fixed equipment, and furnishings for the 52,000 square foot structure.









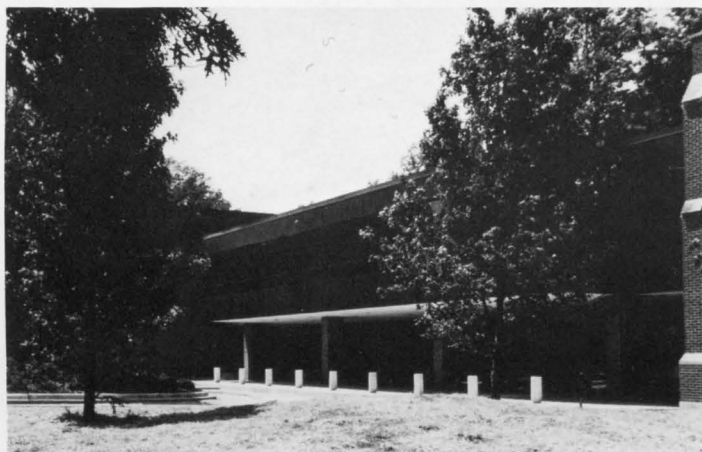
ROSE  
CAMPUS



Moench Hall



Logan Library



Olin and Hadley Halls



Shook Fieldhouse



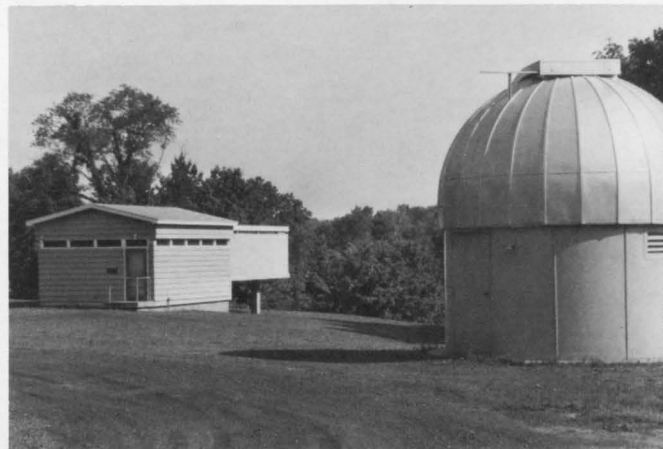
Crapo Hall



Templeton Center



Hulman Memorial Union

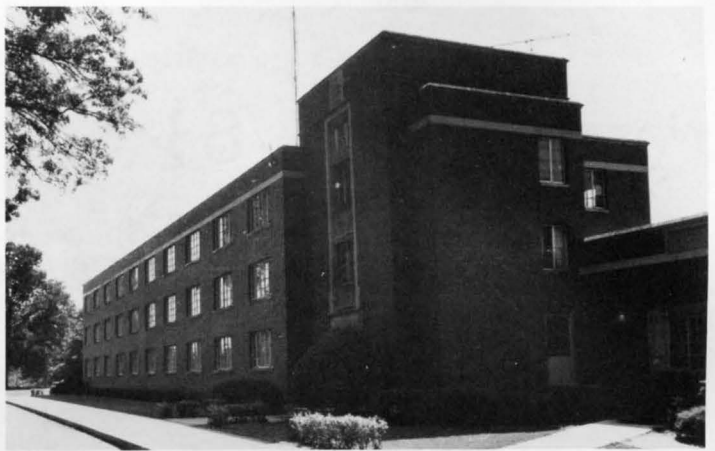


Reeder Lab and Observatory

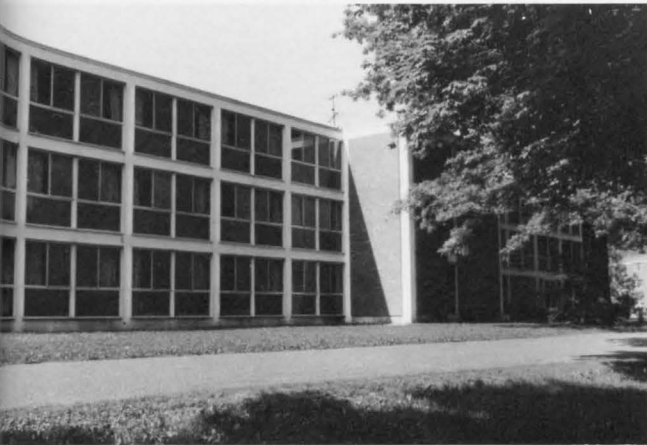




Deming Hall



BSB Hall



Speed Hall



Mees, Scharpenberg, Blumberg



ATO House



Triangle House



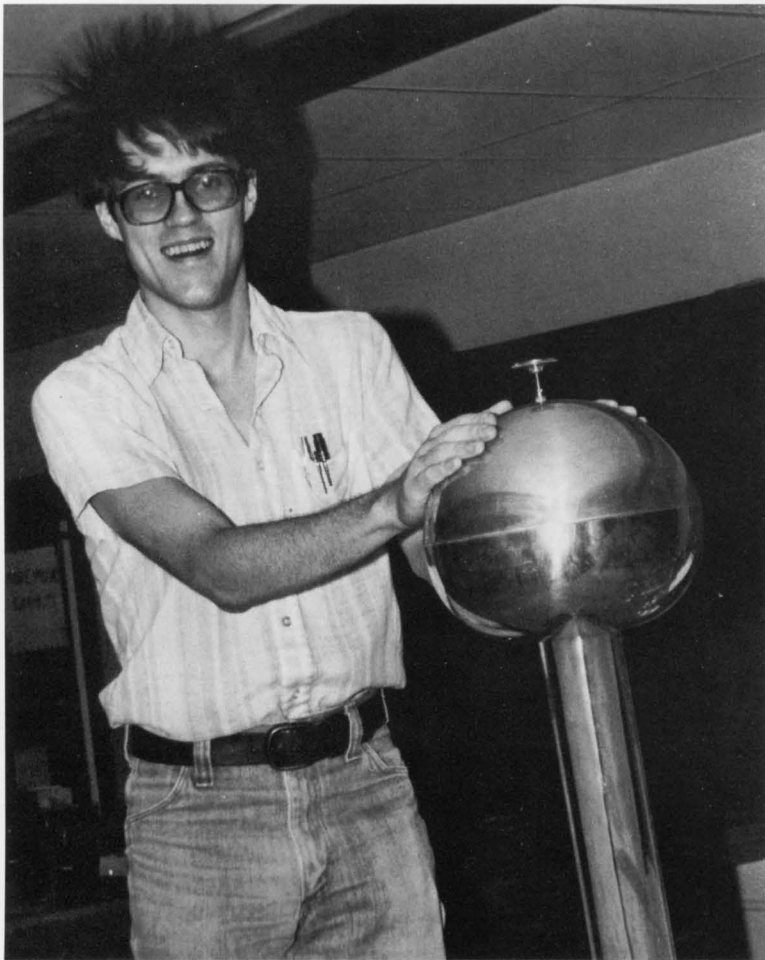
LXA House

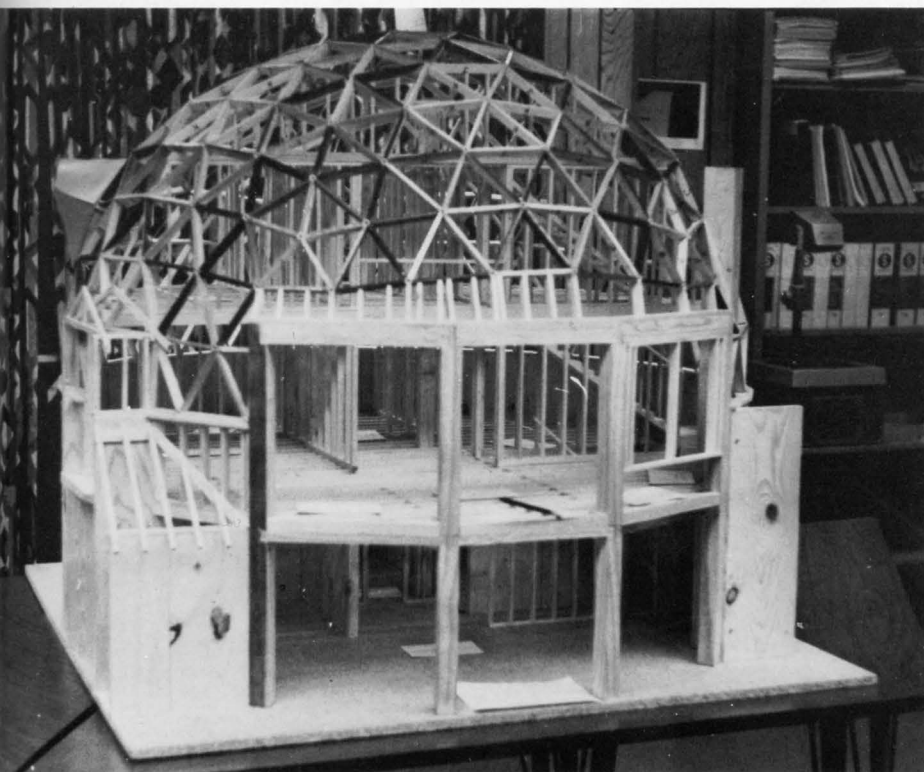
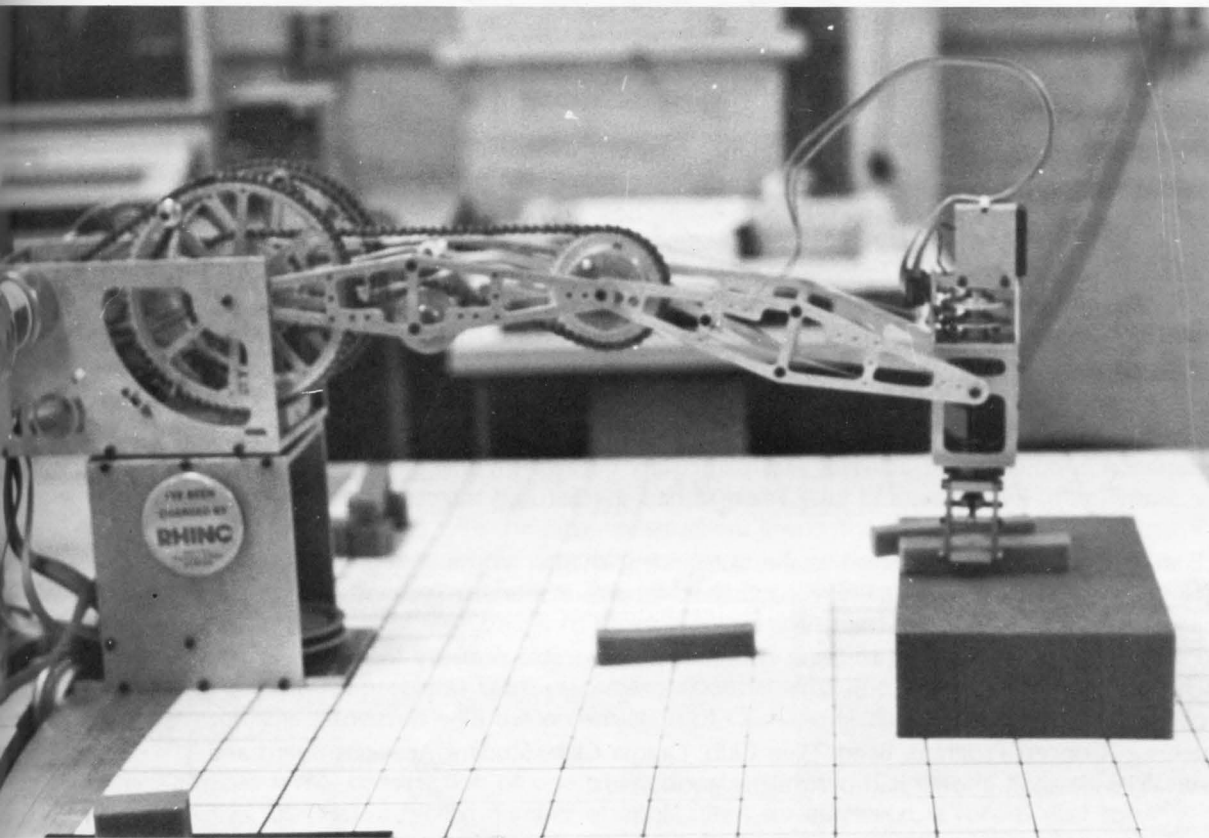


The Apartments



# Parents' Day '83





This Parents' Day will go down in history. The Electrical Engineering Department placed first in the Rose Show, pushing the reigning Chemical Engineering Department to second. Third place went to the Physics Department—the first time a non-engineering department has ever placed in this competition of "show and tell."



# A Letter From the President

The 1982-83 academic year will go down as one of the best years of the history of our school, particularly because of the accomplishments of the student body.

We have the largest graduating class in the history of our school with over 75% of the students who started out as freshmen four years ago receiving their diplomas at this year's commencement. Most schools are happy if 50% of their students can complete the prescribed curriculum on time. A 75% four-year retention is almost unheard of within higher education.

Your participation in co-curricular activities was particularly noteworthy this past year. The U.N. Team, the Math Team, Drill Team and Rifle Team all had spectacularly successful years.

Our ASCE student chapter was selected as the outstanding chapter in the State of Indiana and one of the very few chapters in the entire country to receive a special commendation.

The radio station WMHD continued to bring considerable favorable publicity from the community for our school.

The Engineers in Concert Program, Band, Glee Club, Drama Club, Student Activities Board and Residence Hall Association also all had particularly good years.

It was also a particularly good year for our Greek System. Chet Crow was elected to the National Board of Lambda Chi Alpha and Mike Phifer was elected as a representative on the National Board of Alpha Tau Omega. Lambda Chi Alpha, Alpha Tau Omega, Phi Gamma Delta and Delta Sigma Phi all received national awards.

In athletics we were first in the conference in baseball, cross country and track, second in tennis and golf, which is the highest in these sports ever in the conference. We were third in basketball and soccer and fourth in football. We won the Collegiate Conference Big Bell Trophy for the third year in a row. John Singleton, Stacy Himes and Marty Jones all qualified for the NCAA Track and Field National Championship Meet.

Academically, our student body is the most qualified in this region of the country.

There were also great successes with regard to admissions and development. Over 2,700 applications were received for the 350 openings in next year's freshman class.

A major gift was received from the Olin Foundation for the construction of a new classroom and laboratory facility for chemical engineering, civil engineering and the life sciences.



Over \$2 million was raised to begin the remodeling of Moench Hall for the expansion of our electrical engineering, mechanical engineering, chemistry and physics laboratory and classroom facilities.

With regard to faculty, we were one of few engineering schools with all of our engineering faculty positions filled. The quality of instruction in the classroom and laboratory is outstanding. The participation in professional development by our faculty is at an all time high, with a large number of our faculty presently involved in preparing textbooks and laboratory manuals.

I think it is appropriate to record that there were problems too, of course; lots of mud and parking problems associated with the new construction. It was the poorest year for placement since World War II with only a little over 80% of the graduates having secured appropriate positions at the time of commencement. The fact that it was better than any of the neighboring engineering schools was of little solace to those students still seeking employment.

In summary, the main problems were placement, financial aid and the mud, dirt, traffic and parking problems associated with the construction of Olin and Hadley Hall.

The successes were, construction of one of the finest engineering facilities in the entire country to be known as Olin Hall, a record number of applications for admission, a record year for development with over 50% of all of the alumni contributing to the school, performance of our students in co-curricular activities and the academic performance of our students.

In conclusion, it seems to me that Rose-Hulman Institute of Technology is one of the most exciting institutions of higher education in the nation with which one could be associated today. We are moving forward dramatically in many areas of endeavor. The consequence is that Rose-Hulman Institute of Technology has become among other colleges and universities a place deemed worth watching.

Our successes have not occurred by accident. They have occurred because our student body, faculty and staff work harder, are more dedicated, are more talented and plan better than most other student bodies, faculty and staff.

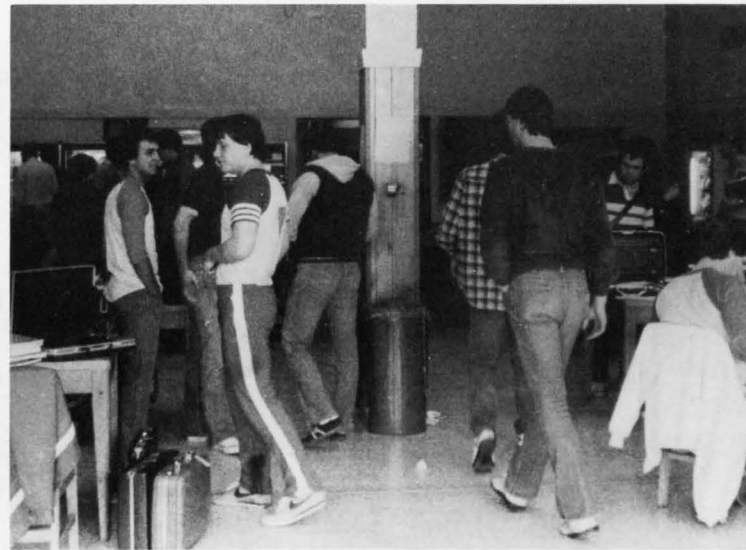
I am persuaded, because of the people that make up the Rose-Hulman Family, that Rose-Hulman Institute of Technology will continue to run counter to the tide that is causing a tempest on most other college campuses.

Rose-Hulman Institute of Technology is a great engineering school and if it continues to make as much progress as it has during the past decade, it will become the model for undergraduate engineering and science education before the end of the decade of the 1980s.

*Samuel F. Hulbert*



# Rose '83





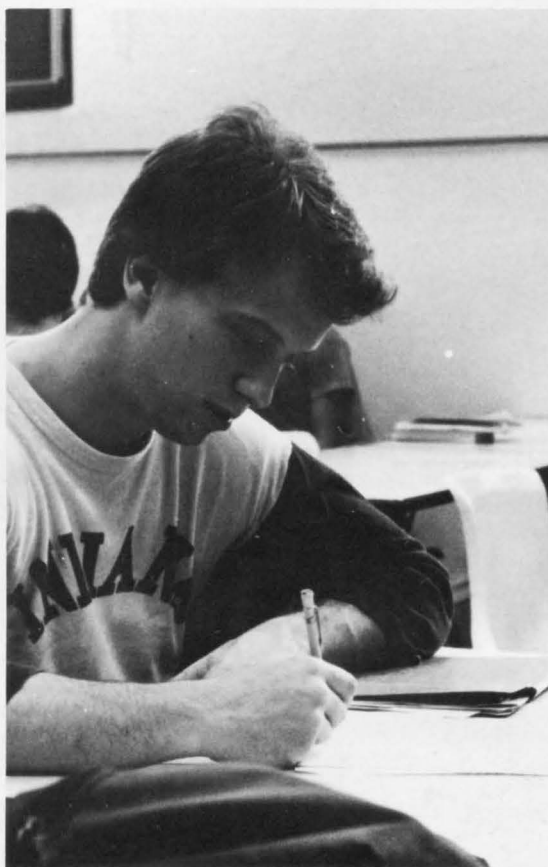
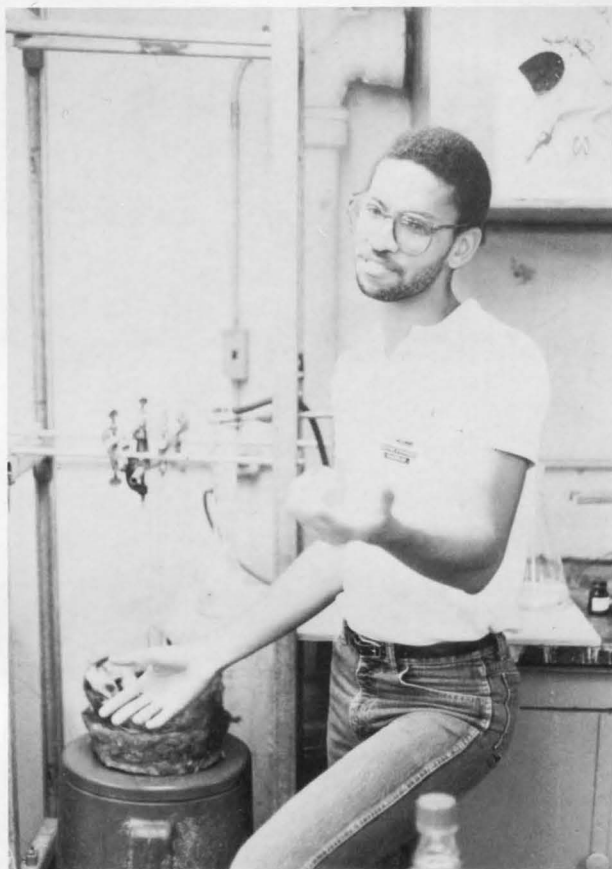
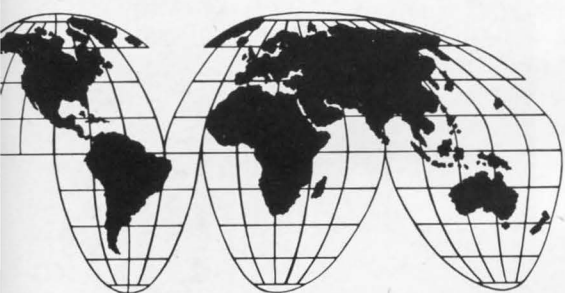


## ON THE CAMPUS . . .

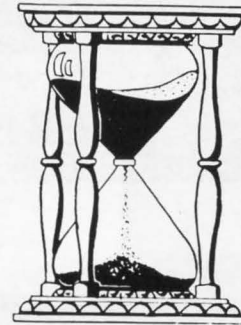
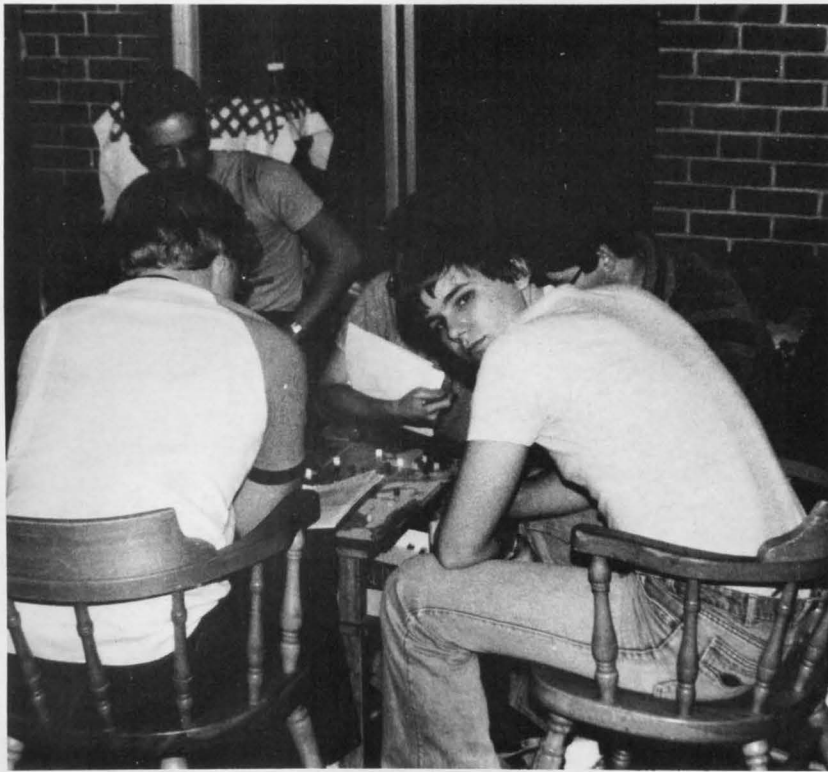


The Clandestine Operation seeks to overthrow the evil imperialist faculty. Lofty plans and schemes are discussed in Clandestine headquarters, the upperclass halls. Early microcomputer modeling demonstrates feasibility of the new secret weapon. Talented minds are recruited from all over the globe. The experts explain the theory to the latest prospective recruits, code name 'snowies'. With feline stealth the admissions department scouts the countryside, hoping to net a few good men. On the surface, the students are working hard at the assignments of their oppressors.





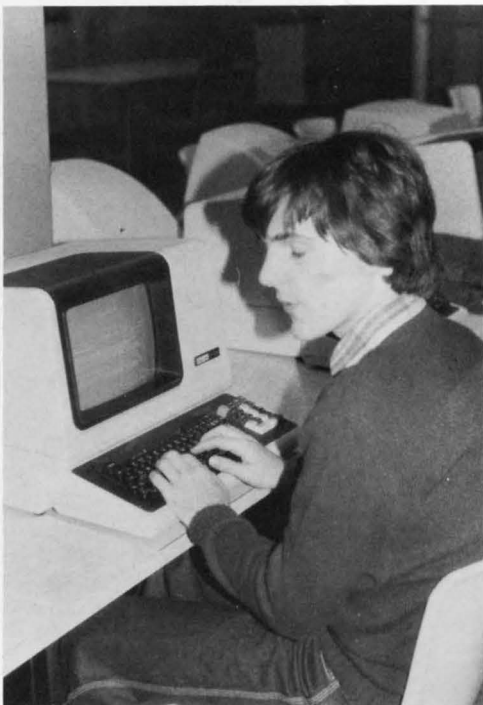
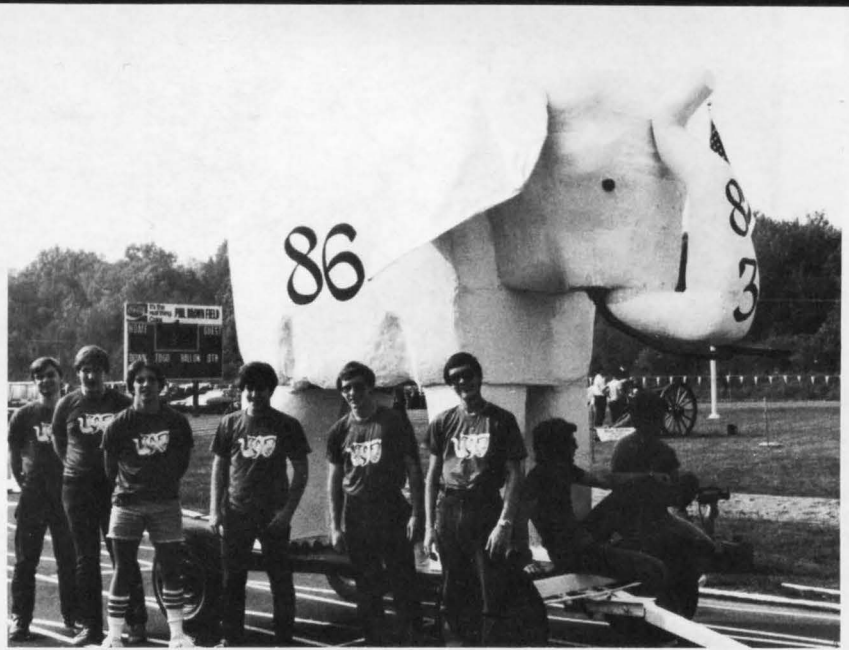




Meanwhile, back at the ranch, the plotting and scheming continues as new data continues to pour in from the labs. But, the sands



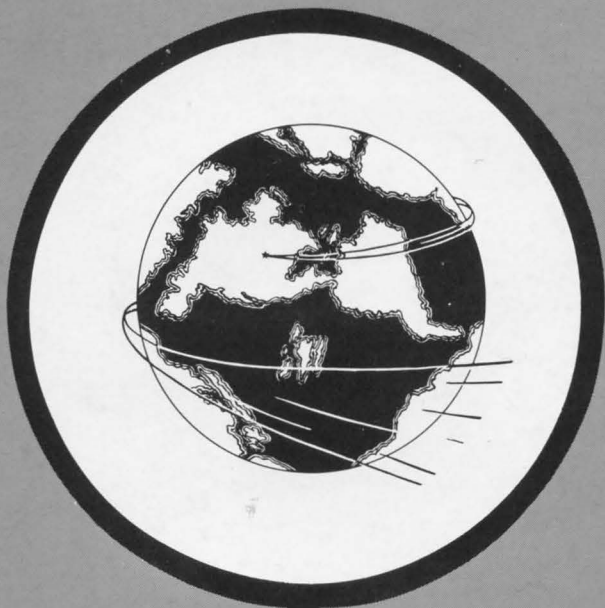
of time slide through the hourglass as finals approach. Durability testing of prototype components is conducted on Phil Brown Field. Concurrently, students check basic assumptions and recheck their theories in their covert laboratories. Work progresses well. In the metals shops assembly of the camouflaged deployment vehicle begins.



Software work goes on into the night (and the quarter), exhausting the programmers who continue sleeplessly. At long-last the deployment vehicle is completed. Total secrecy has been maintained, but three senior schemers, practiced in the ways of the Clandestine Operation, are abducted and questioned. While no incriminating information was obtained, the students are made aware that faculty suspicions run deep. The Operation must not be discovered. In order to prevent observation, work is continued out in the open. Camouflaging is used to avoid any semblance of rational, logical and calculated effort.



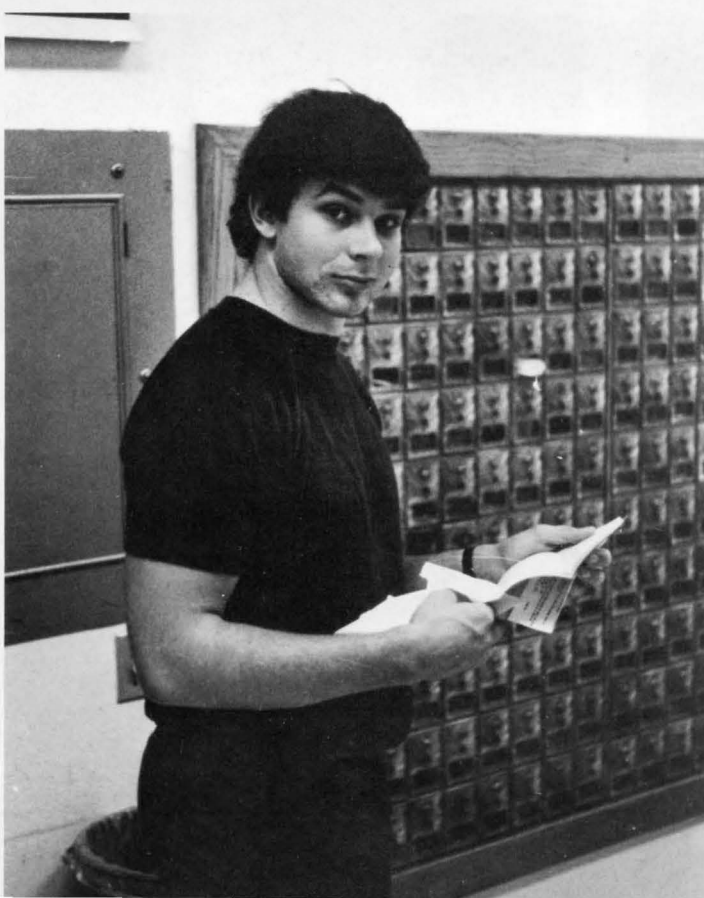




Forced to eat and drink unknown substances which emit strange odorous gases. The insurrectionists continue their work undaunted and set up their own inconspicuous spy



network as a raid warning system.

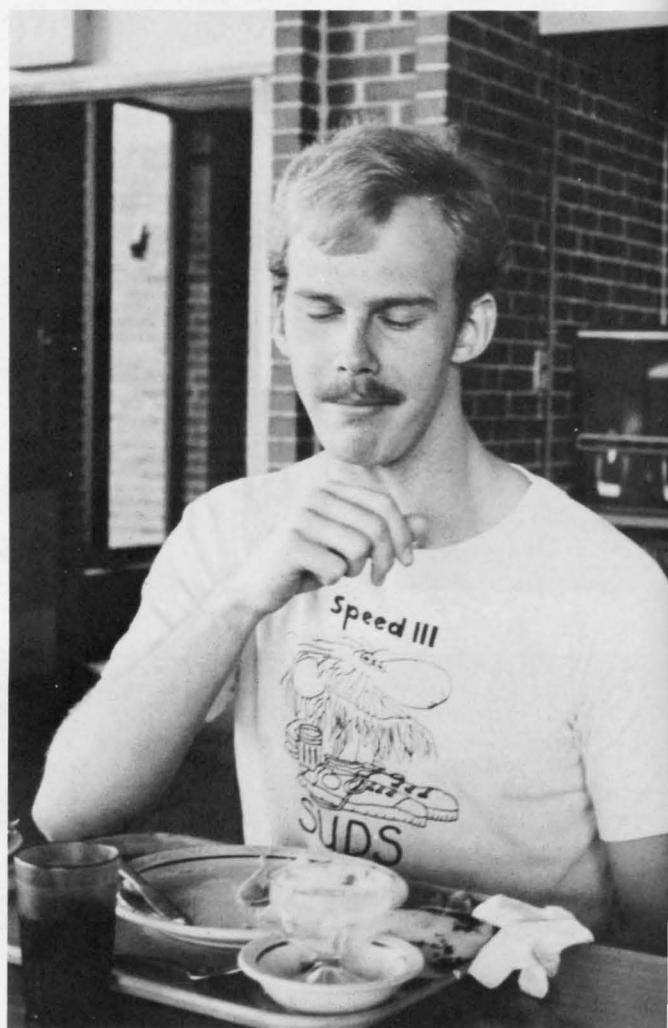


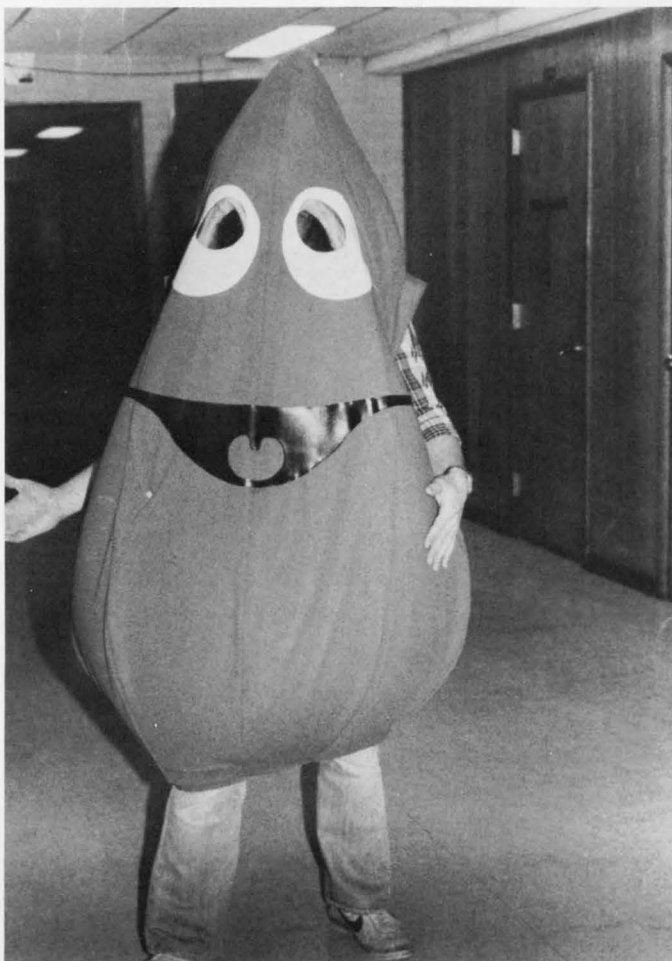
Production races ahead of schedule, but the theorists are still struggling. Time is running short, the Emperor has somehow discouraged the underground operation. He has dispatched his troops to nowhere: Terre Haute, Indiana. Randomly, the troopers arrest and torture students, hoping to extract positive proof of the underground's work and details of its operation and design.





As time progresses, a new camaraderie develops between the captive forces. They share methods and tactics for subversion of the imperialist faculty and reap many benefits from the imprisonment.





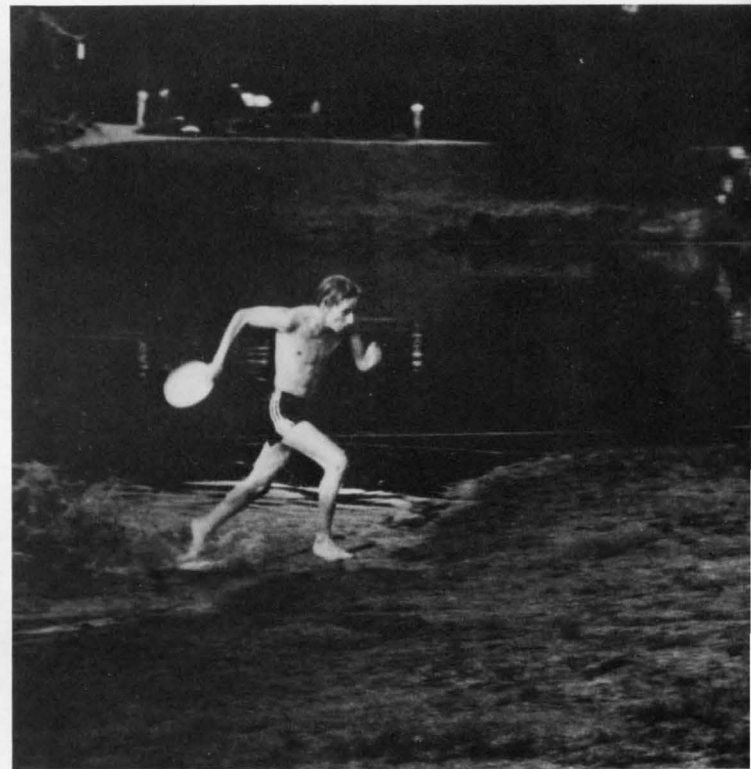
Many widely varied costumes are used to camouflage spies. Would you suspect a walking blood drop to be a dangerously devious criminal spy? Meanwhile, water tests of the weapon system begin on the pond.







While the test results are still being evaluated, the empire makes its move. The test torn and homework weary underworld succumbs to the power and resources of the mighty faculty. The students have difficulty outrunning the high-speed hovercraft from the Imperial arsenal.





As the empire begins tying together the loose ends of its retaliatory action, the news is broken to the public. The Emperor and his henchmen bury the last vestiges of the rebellion and announce the expansion of their territory to as yet uncharted lands.







The rebellion is sent directly to concentration camp and forced to intermingle with the opposite gender, coercion to sacrament to sacrilege—violation of the sacred Rose-Hulman tradition. Yet the students will not give up. Still they tune both mind and body for the continuing conquest.

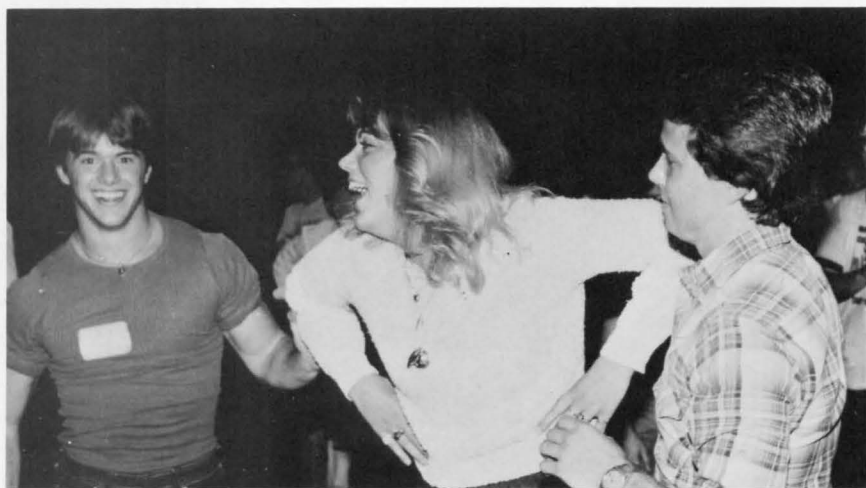
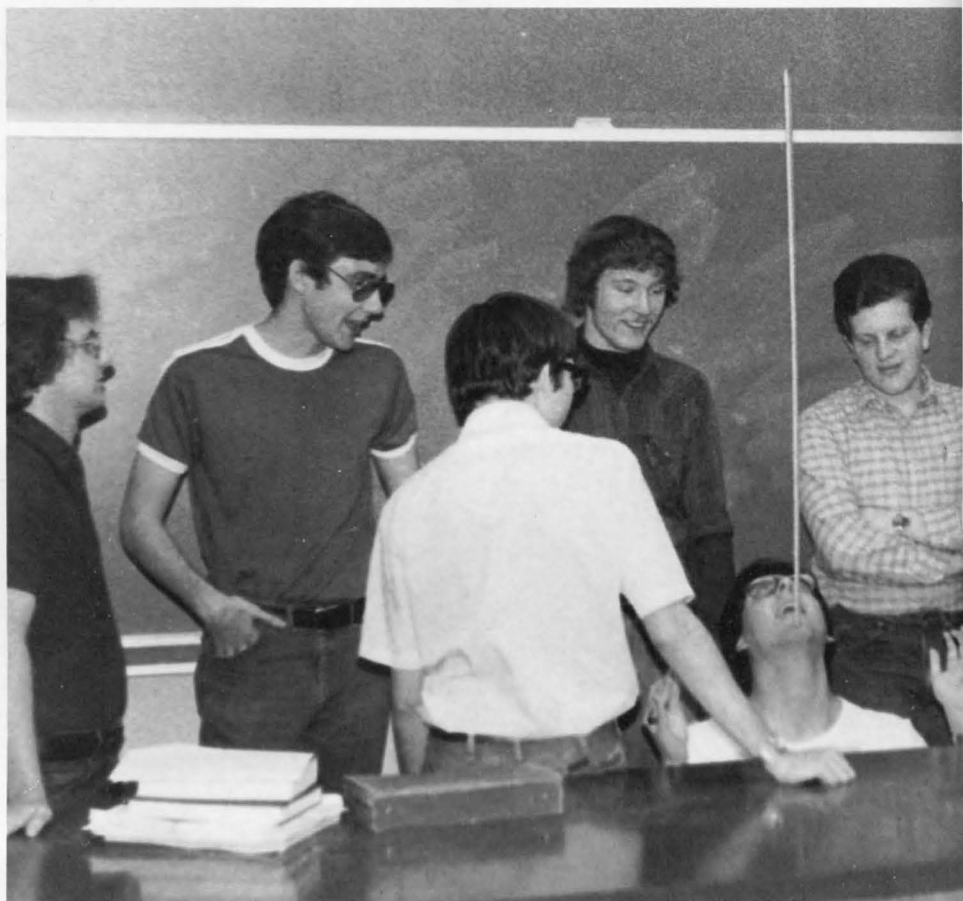


Uncovering new techniques in antigravitational warfare, the struggle goes on within the prison walls.





Leading researcher, Ion Man is able to demonstrate his successful discovery: the lighter-than-air-sabre. The attack force hones its physical talents, speed and agility, while the technical staff examines the talents of their new found allies, Woodsies.

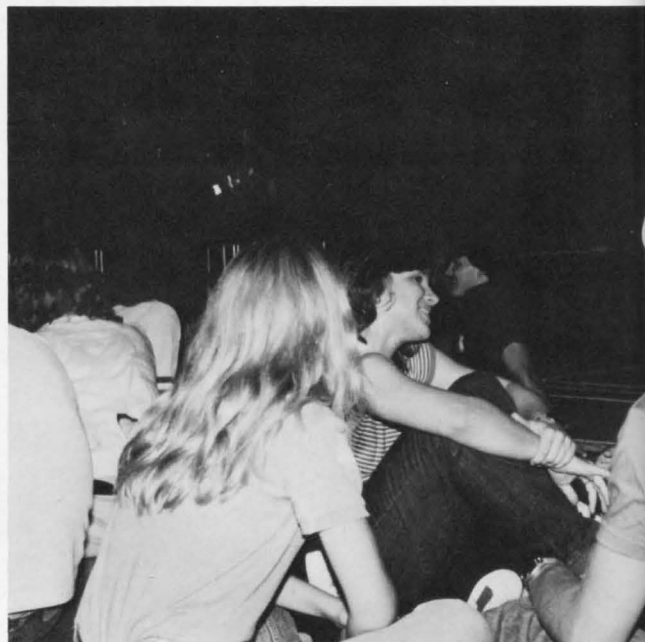





The superficial observance of partying is a calculated tactic to obscure the reality of the hard work from the empirical guards. False cell walls are constructed to hide secret hardware and papers.







As time creeps by the insurgents proficiency at planting inconspicuous spies develops into an art. New signaling methods are pioneered to communicate the early warnings. The empire continues to torture suspects, yet no one talks, the work progresses. Underground spies hide between fallen leaves, and behind magazines.



The strategists explore the possibilities of two forces combining efforts on the ROSE Campus much as they have at other battlegrounds before. But alas, victory in this battle is close at hand. For many soldiers, their individual war is nearly won. Behold it is nearly summer, and the cease-fire will soon be declared.



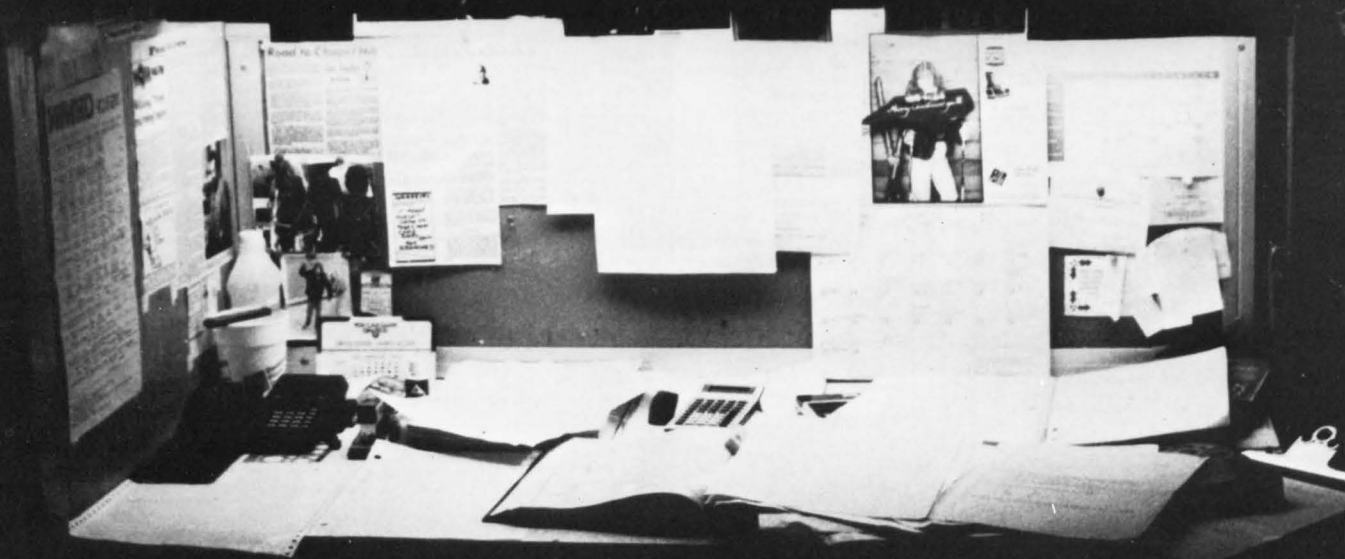
True, college students, especially Rose students work hard, but not nearly as hard as we play. The average 'Rose guy' works much harder at getting out of work or postponing it than he would have doing it, but that wouldn't be as much fun. Part of college life is complaining about how bad life is. Then there are weekends.

Weekends were made for living, as they say. At Rose, we have learned to exist all week long, but to live, well, that's why God created weekends. That hard work does serve a good purpose. It makes us really appreciate that rare commodity of free time, that chance to relax and shoot the breeze. That is when we prove that we really do like Rose. Get us together with nothing to do and what do you find—students talking about class, albeit usually complaining or poking fun. Then there are the summers.

Summer is what college life has going for it like no other career. A change of pace from all that book work, leaving our professors behind. Yes, we fight tooth and nail to survive. We scheme and connive. We actively work to outlive the quarter. What are we really fighting for? Maybe it is summer.



This is dedicated to all students at Rose who put forth the many hours of work required in their pursuit of excellence.

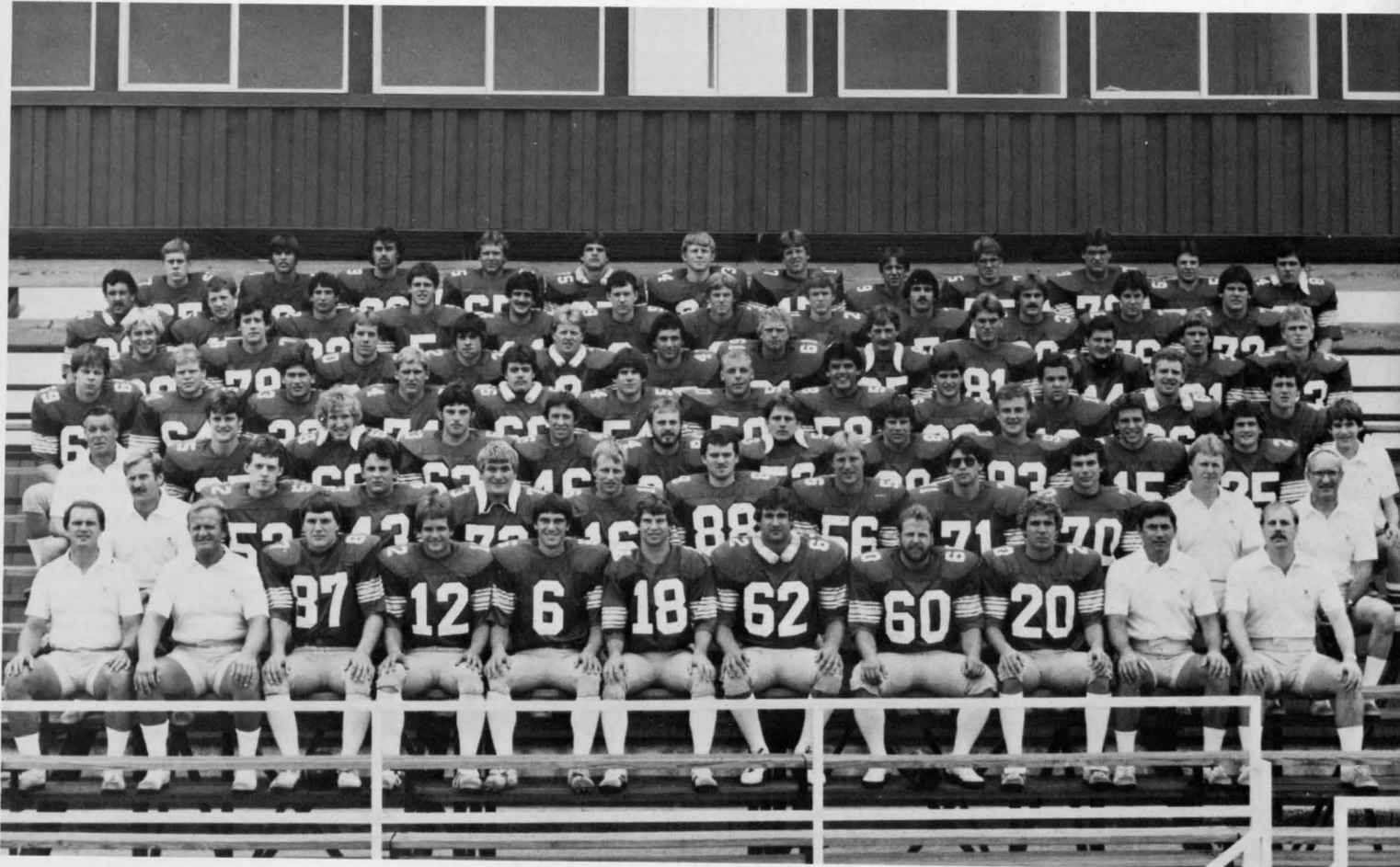


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# SPORTS



# 1982 Football



The 1982 version of the Fightin' Engineers Football team ended the season with a 4-6 record and tied for fourth place in the College Athletic Conference standings. First year Head Coach Bob Thompson experienced a season characterized by inconsistency, watching his team romp to victories in both the first and last games of the season and losing the majority of the games in between. Probably the most disappointing loss came at Homecoming. The Engineers held a 10-0 lead at halftime, but squandered in the second half allowing Principia to come back and win 22-17.

Rose placed four players on the All-C.A.C. team, with two others earning honorable mention. The four outstanding players were: Sophomore center Tony Moshak, Junior running back Rod Schrader, Junior defensive end Ron Savoia, and Sophomore linebaker Jack Grote. Earning honorable mention were Juniors Chris Dezelan and Mark Kaiser at wide receiver and tight end respectively.

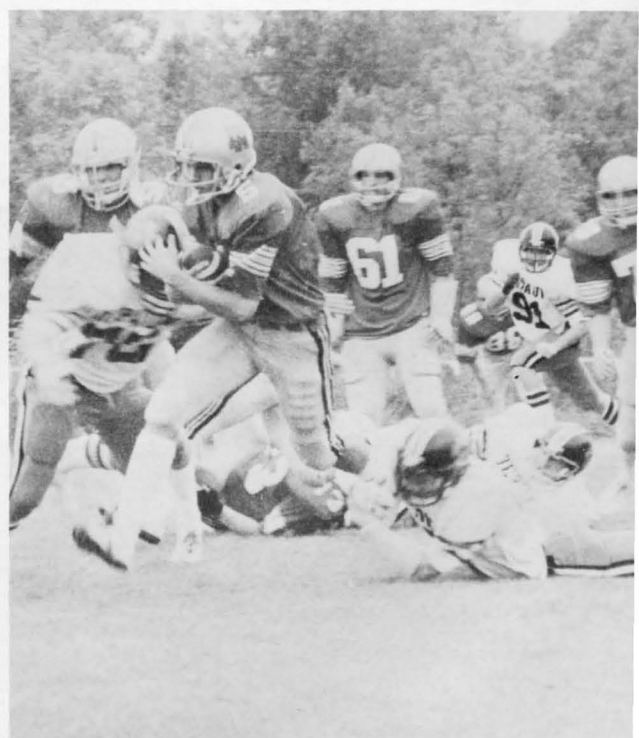
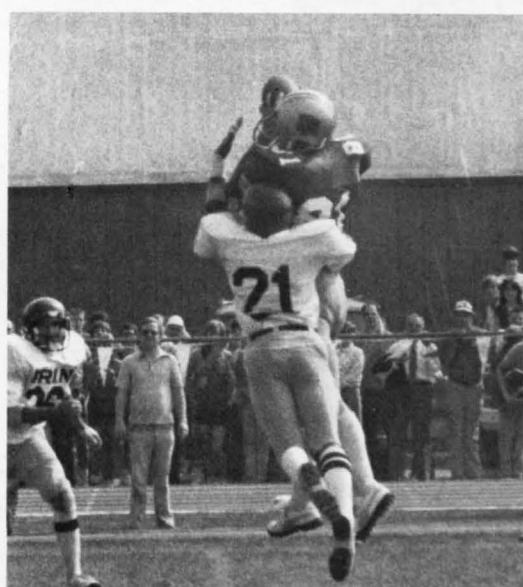
The team is expected to do well next year as a good amount of talent returns.

1982 Fightin' Engineers—Row one: Head Coach Bob Thompson, Dick Comer, David Hill, Jim Krieg, Mark Copeland, Jeff Jackson, Steve Bogaert, Rob Kilhefner, Steve Ankney, Dan McGrath, Tom Miller. Row two: Charles Lindner, Greg Duffey, Dean Hill, Joe Heister, Dave Beil, Shayne Roberts, Tony Moshak, Ed Sahli, Brian Chaille, Randy Dickens, Dick Warren. Row three: Til Panaranto, Mike Patterson, Bryan Nester, Kevin Jeffries, John Perkins, Tony Lozier, David Del Vecchio, Ron Savoia, Jeff Ball, Chip Ray, Vern Vannostran, Andy Wertz (manager). Row four: Joe Xaver, Scott Ross, Phil Meiss, Randy Forgey, Gregg Lowe, Roger Vandersnick, Jack Grote, Rob Wilson, Rod Schrader, Chris Dezelan, Kyle Stanforth, James Bielefeld. Row five: Kurt Jones, Chuck Busenburg, Mitch Cain, Joe Rauch, Mike Taylor, Mike Ritz, Jeff Greer, Gary Pohl, Mark Kaiser, Mike Trench, Jim Tausch, Steve Lamb. Row six: Greg Ottinger, Keith McConnell, Brian Cavagnini, Duncan Gilmore, Paul DePompei, Mike Cain, Earl Wiggins, Rob Gislason, Dennis Wallen, Kevin Keams, Bill Hollen, Bob Nordyke. Row seven: Steve Swanson, Harry Westercamp, Glen Logan, Tom Hawk, Doug Harsanyi, Eddie Fouts, Larry Greene, Brian Lotz, Shannon Roberts, Tim Meckstroth, Thomas Miltner, Dave Redding.

Below: Rose Cheerleaders take a break from their job. Far Below: Dave Del Vecchio grasps a Principia ball carrier.

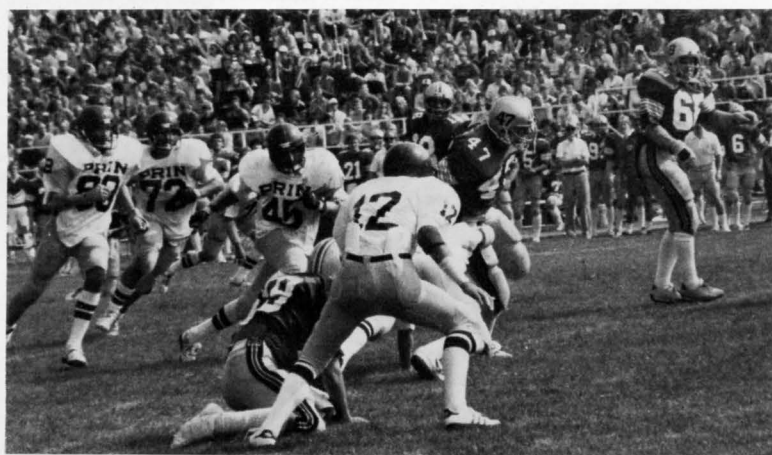








Counterclockwise from left: Rose fans enjoy the game. Engineer huddle prior to an opening kick off. Tight end Mark Kaiser makes a catch under pressure. Quarterback Duncan Gilmore scrambles for some yards. Kicker Vern Vannostran attempts a field goal. Mike Ritz is chased by the Principia defense.





# Soccer team 2nd



Soccer Team—Front: Gordon Hathaway, Bob Wright, Rob Schmidlin, Joe Dawalt, Thien Nong, Scott Tradup. Middle: Mark Heiderscheid, Adam Dixon, Atilio Carbo, Marcello Copat, Robert Tang, Dave Watson. Back: Coach Jim Rendel, Matt Hennel, Rich Correll, Frank Tondora, Mark Bandy, Piero Madar, Mark Janson, George West, Jeff Trang. Not pictured: Steve Roetter, Jamie Huller, Bob Crowell.

Senior Dave Watson works the ball down field.



The Rose-Hulman soccer team went 9-7 on the 1982 season and came on strong to finish with a 2-1 record at the C.A.C. championships. Coach Jim Rendel commended Senior Dave Watson as high scorer and MVP. Also, Richard Correll earned both All-CAC and All-ICSC honors for his play. With a winning record and some outstanding individual players, the team experienced a successful season.

## 1982 SOCCER SEASON

Rose 2	Principia	3	Rose 7	St. Meinrads	0
Rose 1	DePauw	4	Rose 0	Cincinnati	5
Rose 6	Bresica	3	Rose 0	Earlham	4
Rose 0	Greenville	3	Rose 0	MacMurray	5
Rose 4	St. Meinrads	0	CAC CHAMPIONSHIPS		
Rose 4	Blackburn	1	Rose 3	Principia	1
Rose 3	Wabash	1	Rose 2	Southwestern	6
Rose 5	Indiana Central	1	Rose 3	Centre	2
Rose 5	Bresica	3			

# Rose harriers take C.A.C.



Cross Country Team—Kneeling: Kyle Hayes, Bill Bandy, Todd Lozier, Eric Carlsgaard, Scott Klimek, Lee Beckham. Row two: Mark Nordmeyer, Greg Champman, Mike O'Brien, Richard Leonard, Mike Stewart, Kyle Farmer, Greg Gibson, John Smith, Barry Wallen, Gary Helmrich. Row three: Kenny Ward, Bryan Millard, Tracy Houpt, Brian Zweig. On bell: Von Baum, Bart Polizotto. Behind bell: Gene LeBoeuf, Dave Elmer.

Junior Greg Gibson leads a pack of Rose-Hulman runners.

Rose-Hulman's All-American cross country runner Mike O'Brien shattered the course record and led the Engineers to a dominant first place in the C.A.C. championships. Moving on to the NCAA Division III race, the En-

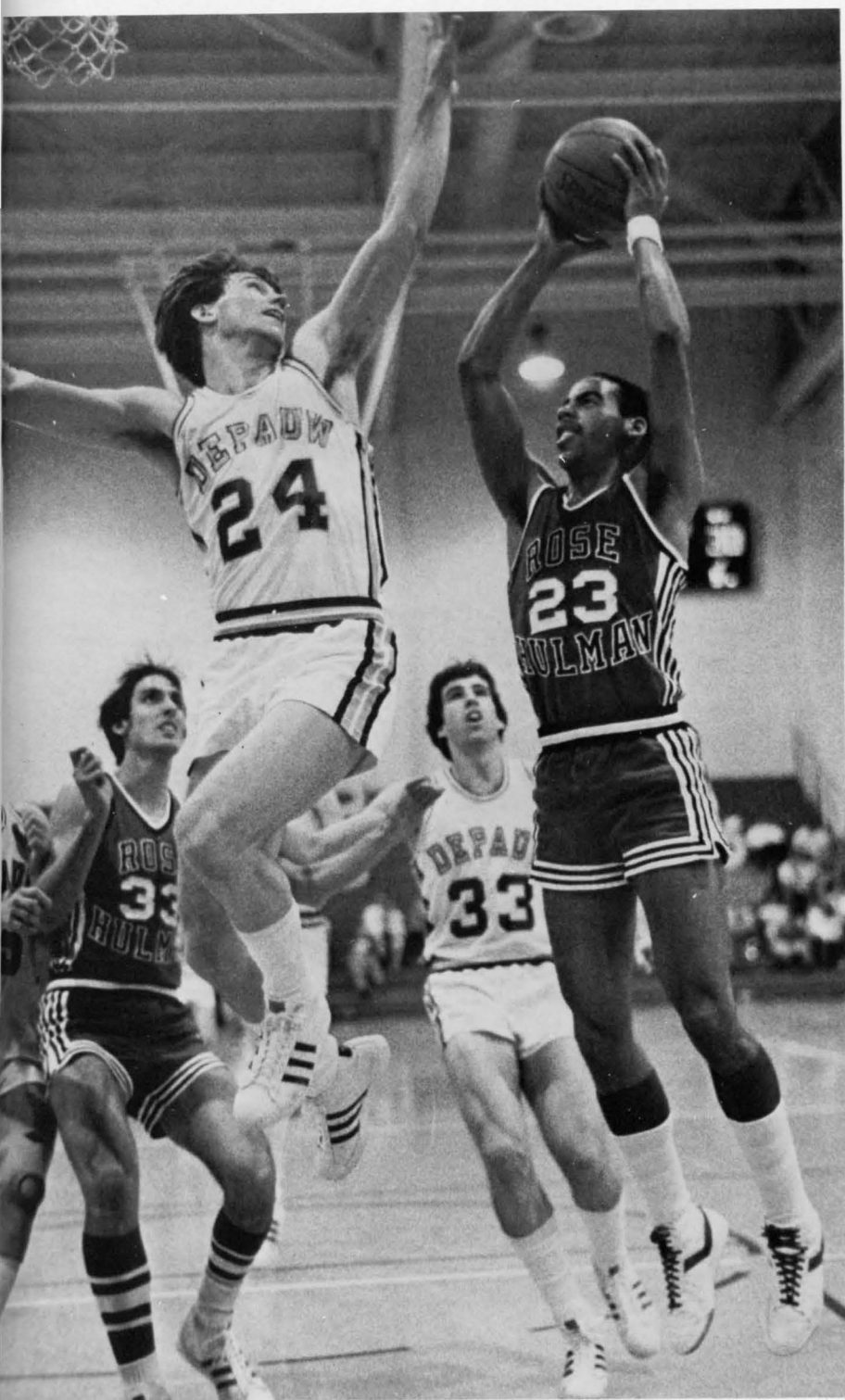
gineers placed an impressive sixth place under very adverse weather conditions. The team finished very strong and Coach Bill Welch enjoyed the success of his team as well as that of O'Brien.



# 1982-83 Engineer Basketball

Right: Rose-Hulman's Keith Kemp (41) battles for a rebound while Dean Stanley (43) looks on. Below: Engineer fans and cheerleaders give the team a boost.





Junior Rob Ewing tries to avoid getting his shot blocked by a DePauw player.



## Engineers carry on winning tradition.



The Rose-Hulman basketball team extended its stretch of seasons with a winning record to nine as the 1982-83 squad closed out the season in style. Guard Lyman Busard semi-slam dunked with no time left on the clock to wrap up the final game of the season against Grace College in the Shook Fieldhouse. Going into the Grace game the Engineers were 13-13 and had wrapped up third place in the CAC, but that wasn't enough. Winning is a tradition in Rose basketball and Coach Mutchner's team

wasn't about to end the season with a losing record. This was a good example of the attitude Rose athletes display.

The team carried on another tradition too, that being the trip abroad over Christmas break. This year it was off to sunny Hawaii for two exhibition games and a lot of fun. Coach Mutchner and the team enjoyed the hospitality of alumnus "Johnny" Black, class of 1911.

Other highlights of the season in-

cluded a victory over defending NCAA Division III champion and arch rival Wabash on their floor and a rout of CAC champions-to-be Centre College in Shook Fieldhouse. During the middle of the season the team won 8 of 9 games during a roll and set up the showdown with Grace as the finale.

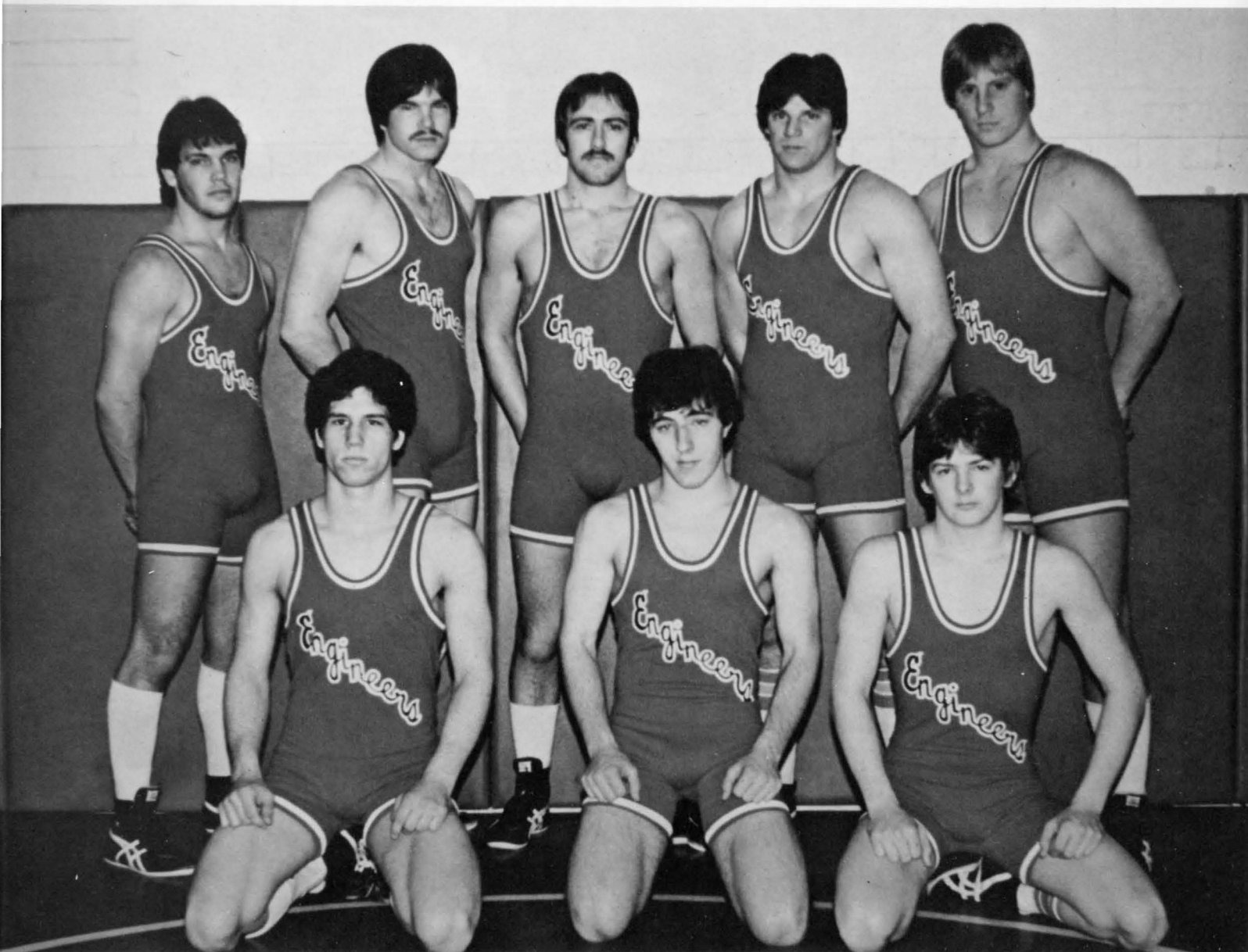
Sporting a starting lineup of 5 juniors, the Engineers should be back next year to better their third place finish of 1983.



Basketball Team—Kneeling: Brad Kiess, Lyman Busard, Scott Williams, Rob Ewing, Fred Cook, Ron Webb, Robert Wheeler. Back: Head Coach John Mutchner, Manager Marke Roberts, Jeff Chandler, Keith Kemp, Eric Sheets, Dean Stanley, Brad Bentley, Andrew Curosh, Tony Robertson, Assistant Coach Tom Hanley.

Above left: Brad Kiess takes an uncontested jumper from the corner.





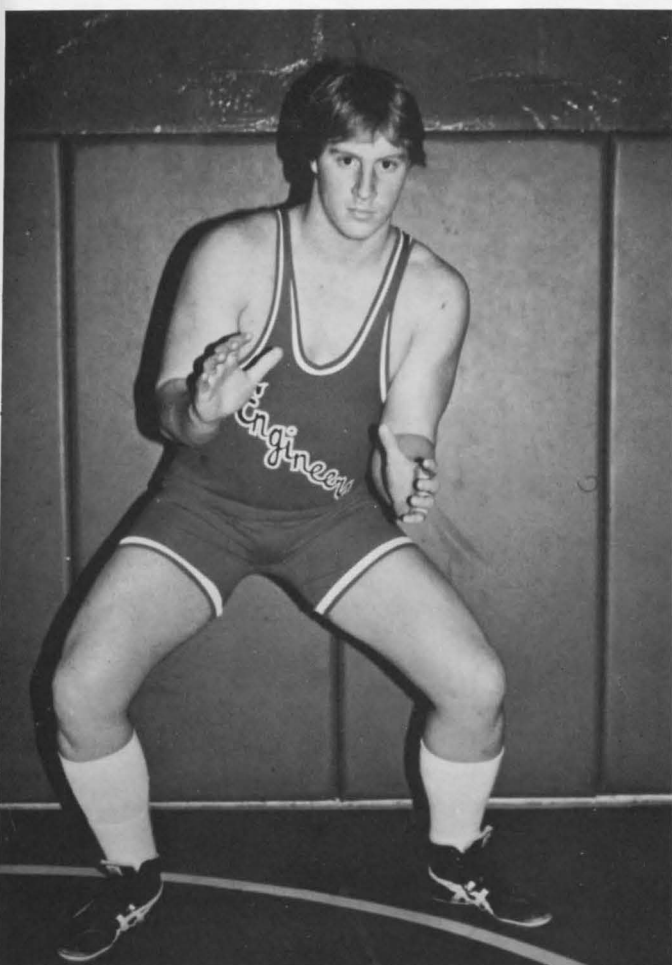
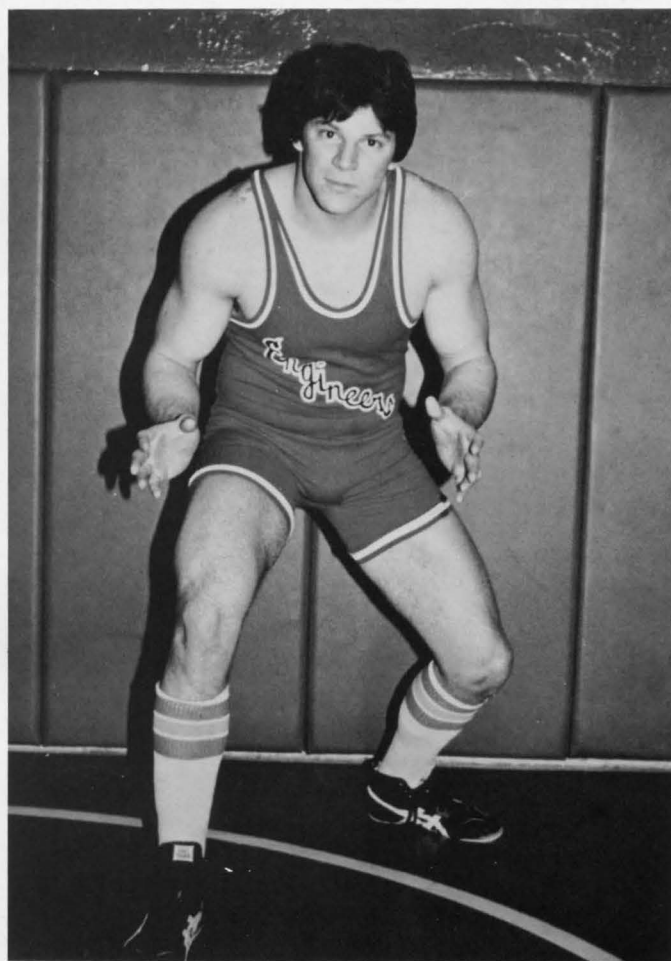
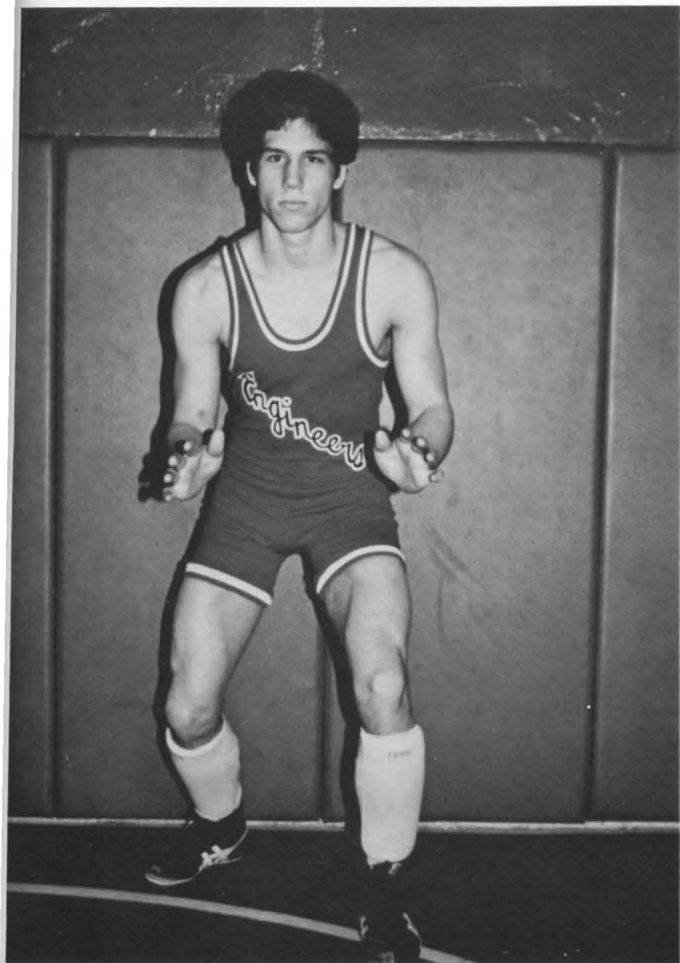
**Wrestling Team—Front: Tom Eidenschink, Preston Robinson, Paul Leeka. Back: Mike Septer, Pat Moran, Scott Sabo, Ron Savoia, Tony Moshak. Not Pictured: Dave Coldren and Phil Meiss.**

The 1982-83 wrestling season was termed a rebuilding year by Head Coach Dan McGrath. The team finished with a 2-8 record and no individual ever placed higher than third place at any of the tournaments. However, only one team member will be lost to graduation and most valuable wrestler Tom Eidenschink will return. Also returning will be Ron Savoia and Tony Moshak, giving Coach McGrath the feeling that, in the tradition of Rose, his team will bounce back next season.

#### WRESTLING DUAL MATCH RECORD

Rose	0	Wabash	45
Rose	29	Illinois College	18
Rose	6	McMurray	47
Rose	9	Indiana Central	48
Rose	10	Missouri Rolla	40
Rose	6	Wabash	50
Rose	18	Hanover	26
Rose	10	Anderson	31
Rose	13	DePauw	25
Rose	29	Washington Univ.	15

## Wrestlers plan ahead



Clockwise from above left: Tom Eidenschink, Ron Savoia, and heavyweight wrestler Tony Moshak.



# Tracksters earn 5th consecutive title



**Track Team**—Row one: Eric Mrozek, Mike O'Brien, Rod Schrader, Karl Kleemeier, Dave Bell, Gene LeBoeuf, Mark Nordmeyer, Eric Schneekloth, Terry Martin, Tod Lozier, Bart Polizotto. Row two: Assistant Coach Bill Welch, Bill Bandy, Lee Beckman, Mike Ritz, Brian Cavagnini, Tom Redford, Jeff Cotman, Brad Zike, Ben Vorhees, Tracy Houpt, Head Coach Bob Thompson. Row three: John Smith, Nick Nerargarder, Earl Wiggins, Steve Nemey, Rob Gislason, Duncan Gilmore, Dave Smith, Bryan Millard, Greg Gibson, Dave Barnes. Row four: Kyle Farmer, Stacy Himes, Randy Forgey, Tom Vanderlaan, Brian Chaille, Rex Beach, Greg Hoffman, Gerard Tarantino, John Singleton, Ken Ward, Richard Leonard, Marty Jones.

**Right:** Brian Cavagnini (3rd from left) leans through the tape at the finish line.



In his 8th year as head track coach at Rose, Bob Thompson led the team to its 5th consecutive C.A.C. championship. Behind the leadership of captains John Singleton, Rod Schrader, and John Smith, the tracksters earned many honors. Highest among these was the Division III All-American honors which both Singleton and Stacy Himes earned. Singleton, a senior voted the most valuable field events man, set a new school record in the

shot-put with a throw of 55'4". Himes, only a sophomore, threw 160'3" to take 5th in the nation in the discus. Another sophomore, Martin Jones, just missed All-American honors competing in both the shot-put and discus.

Freshman sprinter Brian Cavagnini earned high point man honors for

the season while capturing a new Rose record in the 200-meter dash to boot. The most valuable runner, as voted by the team, was senior distance runner John Smith.

The Engineers should remain at the top of the conference next year with the majority of the team returning.



Clockwise from left: Sophomore Marty Jones puts the shot. Junior Dave Smith scrapes over a hurdle. Captain John Singleton presents alumnus John Lynn, class of '66, with the Dennis Dierckman Award for his contributions to the track program at Rose. Sophomore Dave Beil clears the bar in the pole vault.



# Rose baseball champs despite losing record



Baseball Team—Front: Rob Wilson, Mark Carter, Kevin Cvengros, Steve Nowak, Robbie Bumb, Ron Bender, Mark Crampton, Andy Meyer. Middle: Mark Kaiser, Scott Lowe, Mitch Cain, Brent Mewhinney, Andy Burtner, Dennis Wallen, Andy Jeffers, Matt Land, Dan White. Top: Ed Canary, Mike Trench, Jeff Ball, Brian Glaze, Shawn Kendinger, Kirk Miller, Steve Sauer, John Sever, Ed Fouts.

The 1983 Engineer baseball team captured the College Athletic Conference championship, despite ending the season with a losing record. The Engineers simply dominated the annual C.A.C. tournament by scoring 48 runs and giving up only 15 en route to the title. Another highlight of the season was the southern trip, which was the most successful ever with a 7-6 record against some very good teams.

Outstanding individuals for the team included Junior All-Conference picks Mark Kaiser (pitcher, Harper Woods, MI) and Ron Bender (outfield, Goshen, IN), and Senior All-C.A.C. picks Andy Meyer (2nd base, LaPorte, IN) and Steve Nowak (shortstop, Taylor, MI). The Conference M.V.P. award went to Rose Sophomore Rob Wilson for his play behind the plate. The season M.V.P. award went to Andy Meyer, as did the Batting Champion award. The pitcher with the lowest earned run average (E.R.A.) was Kaiser. The season record of 17-22 was quite deceiving as the team had a successful season and achieved their goal, winning the conference championship.





Other page: Coach Jim Rendel strolls out to the pitcher's mound. Left: Steve Sauer concentrates on his swing. Below: Batting champion Andy Meyer gets another hit.



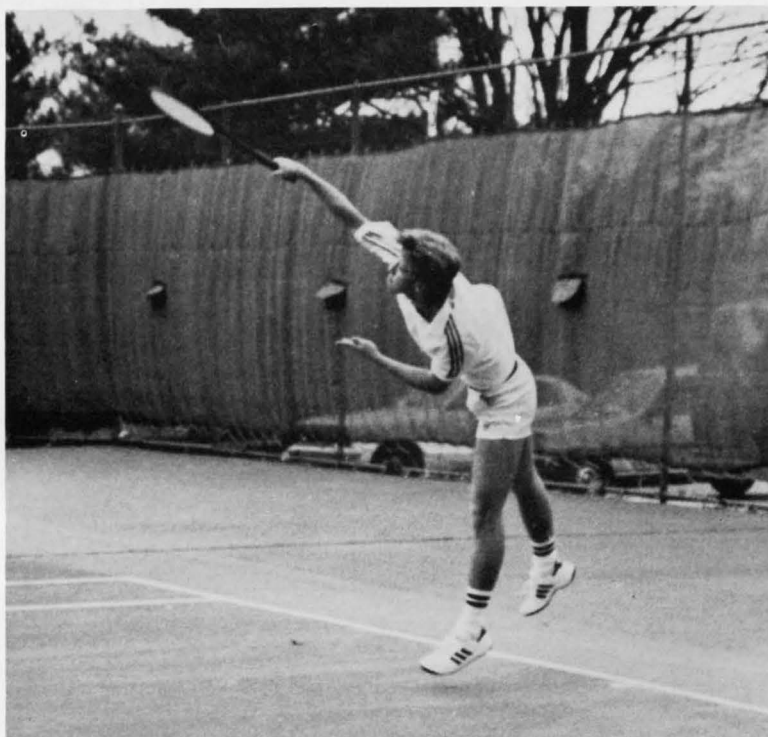




**Tennis Team—front row: Cary Stokes, Mick Smythe, Brian Ramey. Back row: Tim Beer, Don Akers, Barry Peterson, Coach Randy Dickens.**

The Rose-Hulman tennis team finished 7-9 for the 1983 regular season. The netters played well in their third place finish at the Wabash College Little State Tournament and very impressively at the College Athletic Conference Championships where they captured second place.

Some fine individual performances were the key to the high finish at the conference championships. Barry Peterson, a freshman, placed first in the number 6 singles spot. Playing hereos, Cary Stokes and Brian Ramey finished second in the number 1 doubles spot to insure the team their second place finish. This was the highest placing by a Rose team in 7 years.



**Above: Tim Beer gets airborne on a serve.**

## Tennis team captures 2nd place



Left: Don Akers with an overhead slam.  
Below left: Akers again, returning a serve  
this time. Below: Cary Stokes leans into a  
serve.







**Golf Team—Front: Rob Neumeyer, Terry Butcher, Coach Glenn Baca, Back: Rob Haynes, Terry LaGrange, Mark Adams, David Bramer.**

**Right: Terry LaGrange concentrates on his follow-through.**

The golfing Engineers ended the season by placing second in the CAC golf tournament, trailing only Sewanee. Coach Glenn Baca took his team to seven different tournaments over the season, including the conference championship. Rob Haynes and Mark Adams led the team most of the year, while David Bramer, Terry Butcher, and several others provided strong support in the other positions. The ability of the entire team to keep their scores low is the key to a good golf team, and Rose used this to their advantage. Although placing no individuals at the top of the conference standings, the team still managed a second place. The golfers met their toughest competition of the year at the Wittenberg University Golf Invitational where they competed against several of the top small college teams in the nation.

## Golfers club foes



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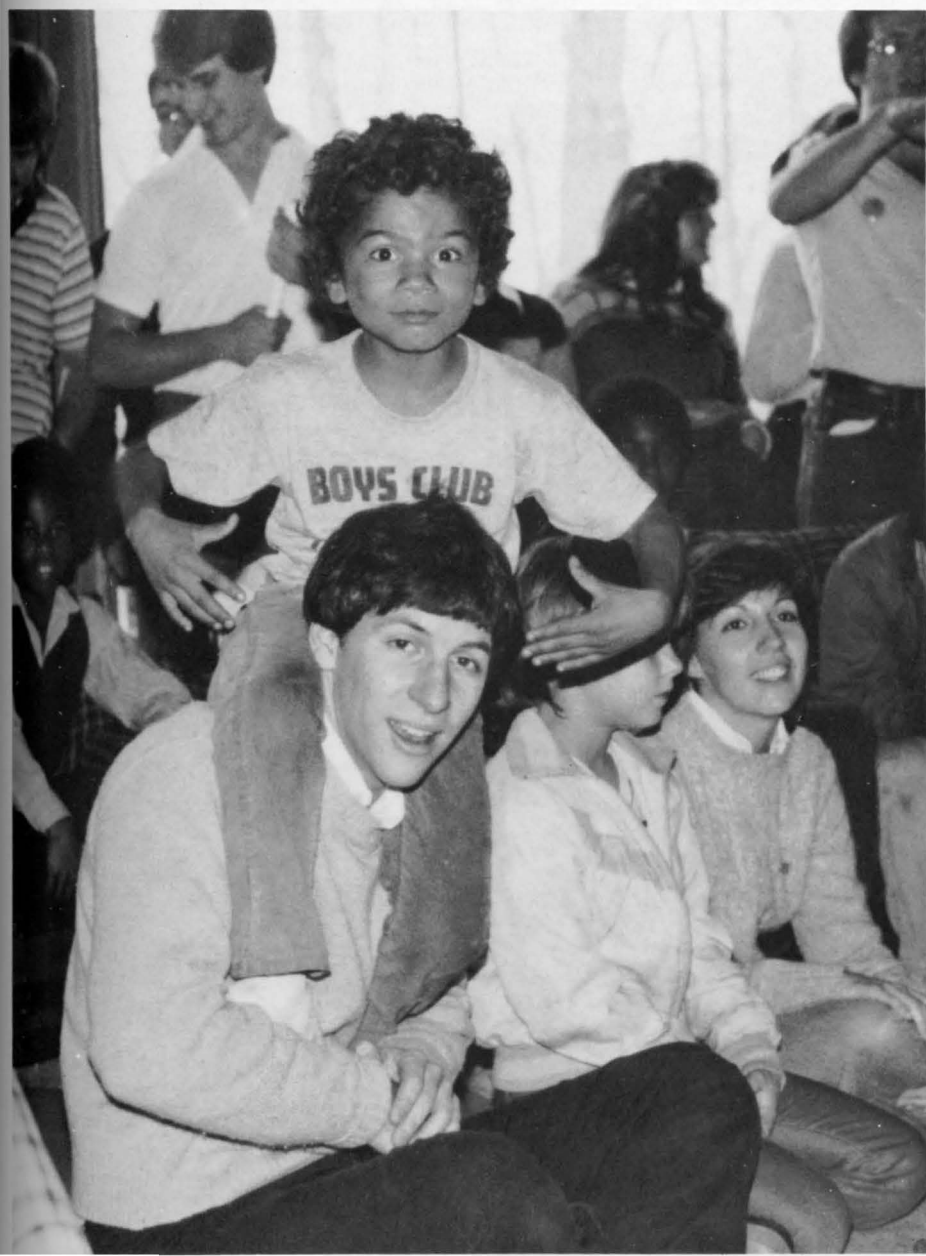




To get maximum benefit and enjoyment from a college education, a man must strive to become socially well-rounded as well as technically proficient. Experience is the key to social maturity, and ATO offers such experience through a large variety of social events from hayrides and band parties to Playboy parties and trade parties with I.S.U. sororities.

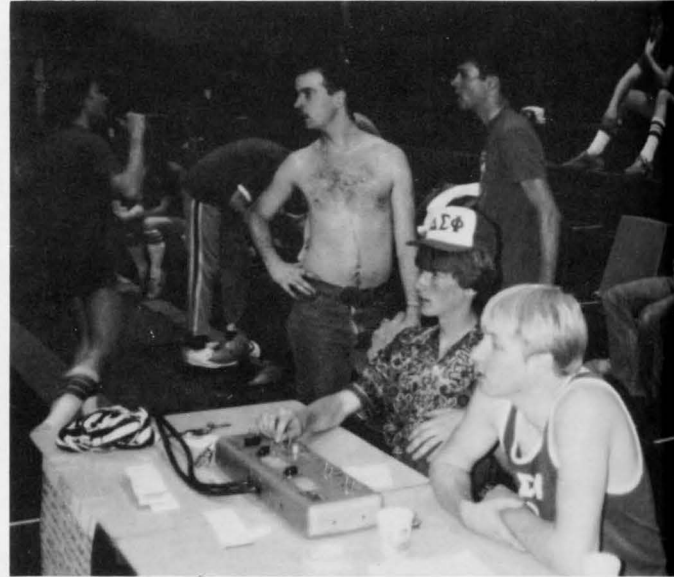
Gamma Gamma also has a fine record of community service. Among our projects are collections for the Heart Fund, Epilepsy Foundation and March of Dimes. The Christmas party for underprivileged children of Terre Haute, the picnic with the children of Glenn Home, and the help we provide to the Big Brothers organization give us an excellent relationship with the Terre Haute public. In addition to our community service, ATO is also very active in sports, both intercollegiate and intramural. We are ever present at varsity games, giving support to the entire team as well as our brothers, and we are also very competitive in both the annual Greek Games and intramural sports.

Alpha Tau Omega feels that one of its strongest points is its pledge program. Pledgeship in Gamma Gamma is one of the most important and best remembered periods of an ATO's life—a time of guidance, growth, learning, and strengthening of new friendships. Pledge activities center around a meeting at the house one night a week to study the history and the operations of the fraternity. Work sessions teach a pledge how to maintain our house and understand why we are so proud of its condition. Many of the activities, including these work sessions and community service work, involve both pledges and actives working together in an effort to bring the active chapter and pledge class closer together.

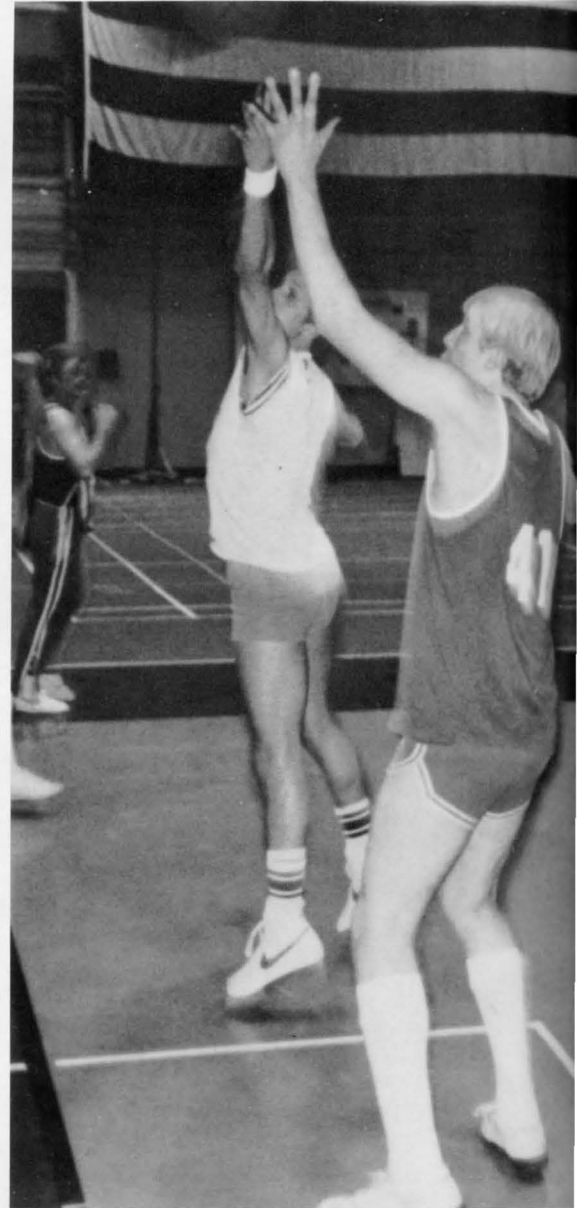




# DELTA SIGMA PHI



The 1982-83 school year was a very successful year for Delta Sigma Phi fraternity. In only two years after its actual organization, the men of Delta Sigma Phi received their charter for the fraternity, and thus, became the newest addition to the Rose-Hulman Greek system. June of 1982 marked the purchase of the Delta Sigma Phi house on Sixth Street. The 1983 pledge class was the largest in the fraternity's history, indicating a bright future for the fraternity. Another large success was the annual 24-hour basketball marathon with the proceeds going to the March of Dimes organization. Not only was this a civic activity, but also a social activity. Many groups from around the Rose, ISU, and St. Mary's campuses participated against the members of the fraternity. Even in the wee hours of the next morning the spirit of brotherhood and competition was intense, especially from the team of girls from Indiana State.





KENNETH MOE   MICHAEL BLANKENSHIP   MARK KIPP   DAVID YATES   STEWART SULLIVAN  
TREASURER   TODD KUHSE   DAVID EUBANK   CHRISTOPHER PIEDMONTE   RAY BRADWAY, JR.  
VICE PRESIDENT   PRESIDENT   SECRETARY



BURKE DEENE   CHRISTOPHER CLEARY   DONALD MORRIS

## Delta Sigma Phi

### Zeta Lambda Chapter

1982      1983



DWAYNE OWENS   JOHN KENNEDY   TROY UAHINUI



ARTHUR LEYH   DAVID RINEHART   DAVID STEWARD

## Rose-Hulman

### Institute of Technology



RICHARD FOX   STUART GUINER   ANTHONY FOSSETT



JEAN PERNER   DAVID CRAMER   DU WAIN AKE   MARK THORESEN   DREW GEHMAN



BUCK BROWN  
ADVISOR



DAVID DEMETER   JIM VENNARD   MARK NORDMEYER   MIKE GREGORY   SCOTT BRADY



JAMES BARTEE   KENNETH WARD   MARK BORMANN   JAMES TORLINE   ROBERT HOWELL   DAVE DUFFIELD   ALBERT HAINES   JAMES SKINNER   NATHAN CASE   DAVID PRICE   ANDY SPEARS

EDWARD VANTINE STUDIOS, HAMILTON, N.Y. 19008





BRIAN FABEL    DAVID HUFF    JOSEPH HUTSON    ROB VON STRALENOFF    THOMAS KOURIS    WILLIAM SALOMON    PETER ALVEY    RICHARD BRINLY    PAUL BRUSH    CHET CROW    JEFFREY TRANG    RICHARD EVANS




MIKE TATLOCK    ED ODION    CHRIS FLYNN    STEPHEN FULWIDER    JOSEPH KUNKEL    BRIAN DAWSON    TERRY MARTIN    EUGENE LE SOUP    EDMARO CANARY    SCOTT LOWE    BARON BIMMER    BRYAN JONES



ALAN AVERY    SCOTT MABRY    JERRY ROMINGER

**Lambda Chi Alpha**



19      83

**Rose-Hulman  
Institute of Technology**



TODD DRAZIO    DOUG BYRUM    ERIC MILES



RONALD RUSSO    JOSEPH BURNS    JEFFREY NADEAU    MARK ARMSTRONG



JOHN MORANSKI    FRED RASCHE    SCOTT MCCAN    MICHAEL DAVISON



MARK SIERACKE    RICK OOSS    JOHN SEVER    STEVEN SHANNON    TIM BEER



JAMES EIFERT



LYMAN BUSARD    BILL THRASHER    BRADLEY ZIKE    DAVID TITZER    CAMERON EKESTER



DAMON RICHARDS    JOHN MESSERSCHMIDT    HUGH THORNBURG    GERARD TARANTINO    SCOTT FENNEL    MARCELO COPAT    BRIAN BARTELS    TROY BISHOP    DENNIS BURKE    BRADLEY ELLIOTT    JAMIE WHITE    JOHN SEARLE



ROBERT FESSENDEN    DAVE FREESE    JONATHAN EVANS    KEITH MCCONNELL    STEVE WUBBEN    LARS HO-TSUNG    BOB SCHAEFER    KIRK MILLER    WAYNE HEFFNER    DOUG LEWIS    MATTHEW HARDMAN    DON CHILDRESS



JOSEPH DUELOT    WILLIAM TIEDEMAN    LES DUELLMAN    GLENN BRIDWELL    STEVE SAUER    CURT WEHRELY    MICHAEL HARWOOD    DREW KARNICK    NEIL BROWN    MIKE KNECHT    KEITH HEFLIN    CLIFF SCHELLENGER

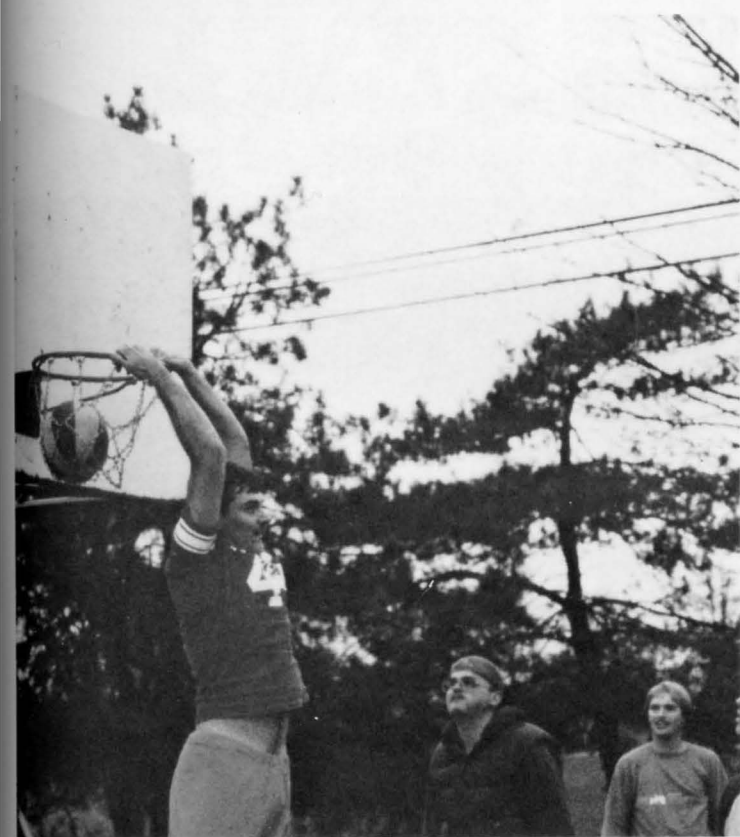


STEVE NERNEY    DENNIS KOOPMAN    STACY HIMES    STEVE HARMAN    SCOTT LANGE    JAY BARTLETT    BILL WILLOUGHBY    MARK HAMILTON    ROD HERBERT    ROBERT WILKINS    GABE FLECK    MICHAEL SULLIVAN



STEVE OERFLINGER    NICHOLAS OKRUCH    TODD TROUTMAN    SCOTT WILCOXSON    DANIEL HARRISON    ED GUILFORD    DICK WEIGEL    TODD LOEHR    SCOTT WRIGHT    MITCH CAIN    ELIA CHADEI

EDWARD VANTINE STUDIOS, HAMILTON, N.Y. 12085



College offers students the opportunity to get involved in many organizations, the Greek system being just one of them. The fraternity takes pride in achievement, believing that the dedication and talent shown is indicative of and benefitting Lambda Chi Alpha. Evidence of this is shown by our participation in the Greek Games, in the intramural sports, the charitable "Run for Those Who Can't", the participation of our members in student government and engineering societies, and by our outstanding social program. We are also proud of our Associate Member Program, whereas other fraternities would have a pledge program. Our new program, which does not condone hazing, gives every man credit for what he is while helping him grow as an individual. Instead of being isolated into a separate class, he is brought into the realm of active membership, and generally helping to run the fraternity. Our strength lies not in the past, but rather in the present and future as the men of Lambda Chi Alpha continue to make their mark on the campus and community.



# PHI GAMMA DELTA





The men of Phi Gamma Delta feel our Rho Phi chapter has something distinctive to offer: a contribution to a man's individuality. In turn a man's individuality contributes in its own way to the chapter. Our chapter is comprised of scholars and athletes, leaders and followers, liberals and conservatives. We pledge a man on his merits and worth; we have no molds or stereotypes.

The best example of this is our pledge program. It is a pledge education program, not a pledge training. We don't train you to be a Fiji, we teach you what it means to be a Fiji. No line-ups, no 3:00 A.M. work sessions, no "hell week" to mar the pledge-active relationship. We believe

in treating brothers as brothers from the very beginning. Pledges learn fraternity history, serve on committees with actives, work at work sessions alongside actives, and attend social functions.

At Rho Phi, a keg alone does not make a party. A party is people: guys and girls, Woodsies and State girls alike. A party is a Purple Passion, A Wedding, South Sea Island, and of course, New Year's. Maintaining a meaningful social life at Rose is a challenge, and Phi Gamma Delta works hard to meet that challenge.

Social Service is also very important to the brothers here at Fiji. We have aided the Boys' Club, collected mon-

ey for M.S., and spent a day every year cleaning Camp Goullick (summer camp for boys). Our annual track meet, sponsored by us for the grade school students of Terre Haute, not only shows them a good time, but raises money for the Special Olympics.

While being a Fiji is a time-consuming job, we are also heavily involved in other extra-curricular activities. Fijis play their roles in Student Congress, ROTC Department, varsity athletics, and various campus activities such as administrative committees. We are also well represented in almost every major honorary and professional society at Rose.

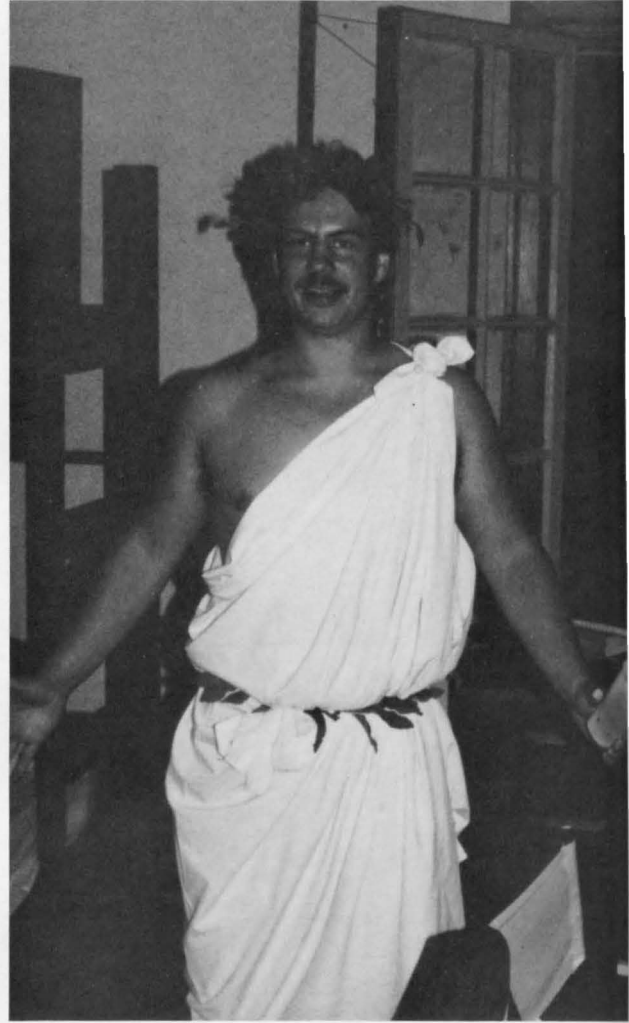













































# Sigma Nu

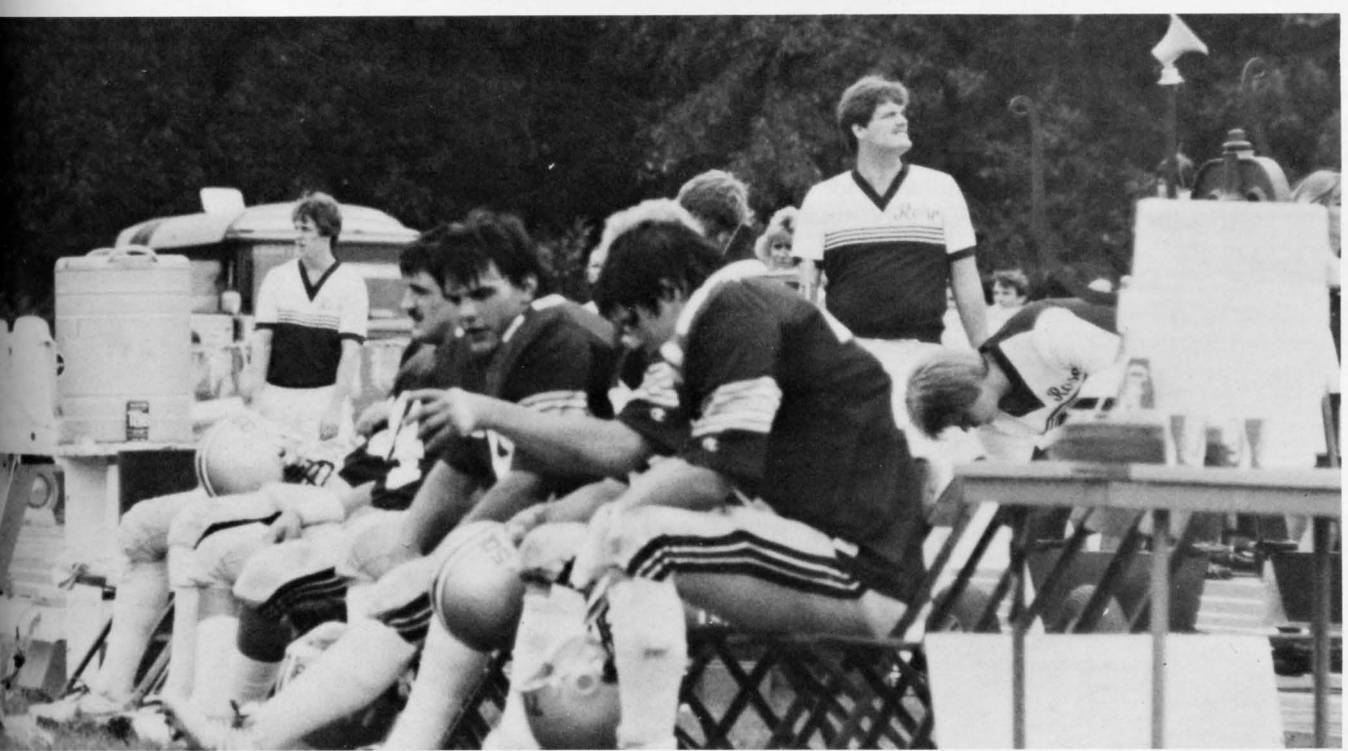
The Beta Upsilon chapter of Sigma Nu feels that a social life is an important part of college, necessary to further the development of a confident individual. Therefore, Sigma Nu holds three formal dances during the school year: Homecoming Dance, in the fall; Pledge Dance, in the winter; and the Riverboat weekend in the spring. Riverboat is a spectacular party aboard a paddle-wheeler cruising on the Mississippi in St. Louis. In addition to the three special dances, Sigma Nu also entertains mixers with ISU sororities during the year. These social functions lead to poise and personal development while providing entertainment and fun—the social goals of Sigma Nu.

Student organizations and activities are an important part of Sigma Nu's team. Whether it be a class office, a faculty committee, student congress, an honorary fraternity, a varsity sport, or intramurals you will find a Sigma Nu in a leading position, fulfilling the fraternity's responsibility to the school.

Sigma Nu also has a commitment to serve the community. The chapter collects for the Heart Fund, Kidney Fund, and the United Way, donating time and effort to canvass neighborhoods for these worthy causes. Time is also taken to help the elderly of the Sigma Nu neighborhood with transportation or just a listening ear. For these reasons Sigma Nu is admired by the surrounding neighborhood.



												
CHRIS JACKSON	EDWARD EVERS	DAVID HILL	MATT FRUSHELL	BRAD SMITH	CURT LARSON	MARK COPELAND	KENNETH RICHMAN	STEVE BOGART	RICHARD DAUER	GRANT PONDAK	JAMES KRIED	ROBERT KILHEFNER
												
STEVE ANNEY	JOHN SMITH	GREGG LOWE	GARY POHL	JEFFREY GREER	TERRANCE LA GRANGE	GARY KLIMEX	JACK GROTE	DAVID REDDING, JR.	GREGORY OTTINSEN	CHRISTOPHER DEZELAN	CHRIS BAGARUS	SCOTT KELLY
				<div style="text-align: center;"> <h1>Sigma Nu</h1>  <p>19 83</p> <h2>Rose-Hulman Institute of Technology</h2> </div>								
JAMES KRIYAN	ERIC LUCAS	JEFFREY BALL	CHRIS FRANK					MIKE TRENCH	RONALD SAVOIA	GREGG DUFFEY	MARK KAISER	
												
MICHAEL SPELTON	DEAN HILL	DAVID BOOHER	EVERETT HIGGINS, S.					HARRY WESTERKAMP	MICHAEL CAIN	DUNCAN GILMORE	MICHAEL RITZ	
												
ROBERT WILSON	JOE HEISTER	PAUL DE POMPEI	ROBERT COX	KYLE STANFORTH	ROGER VAN DER SNICK	STEVEN SWANSON	PHIL WEISS	DOUGLAS HARGANY	ROBERT DILSDON	ROBERT SCHULER	LARRY GREENE	ANTHONY MICHAK
												
CHRISTOPHER MILLER	SCOTT KLIMER	JIM TUGSON	EDDIE FOUTS	EDWARD BAYLI	BRIAN GLAZE	VERN VAN NOOTMAN, JR.	ROBERT NORDVKE	BRIAN GANNON	HAROLD RAY	TIM BECKSTROTH	THOMAS MILNER	SHANNON ROBERTS
EDWARD VATTINE STUDIOS HAMILTON, N.Y. 12040												



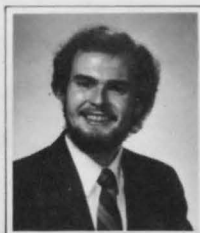




JOE KRUPA  
SENIOR HOUSE MANAGER



KEVIN BETTS  
VICE PRESIDENT



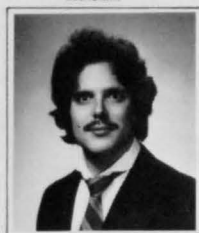
JEFF RYLE  
PRESIDENT



TIM KOLB  
TREASURER



MICHAEL FOSTER  
SECRETARY



TOM PAULY

Theta Xi

19



83



TIMOTHY FINET  
JUNIOR HOUSE MANAGER



JOHN WINSLOW

Rose - Hulman  
Institute of Technology



RAYMOND AVE



CHARLES SNYDER



MIKE SUNDHEIMER



JOHN OEHLER



SAM SKINNER

EDWARD VANTINE STUDIOS, HAMILTON N.Y. (1983)

One cannot judge a book by its cover, nor a fraternity by its size. This is one of Rose's oldest fraternities, established in 1907. The men of the Kappa chapter of Theta Xi learn to live and work with many different people. Each brother is given a chance to develop his own individuality while contributing to the group's benefit. By being a small fraternity, every member can play a major role in the leadership and growth of the fraternity.

Annually, Theta Xi hosts a series of popular social mixers. The most noted is the tenth week monotony-breaker: WINEFEST. Theta Xi needs not to go to the beach for its annual Beach Party, the beach is in the TX basement, all three tons of it. Last, but not at all least is their yearly pig roast.







MARK SHIRLEY



CHRIS WILCOX  
ACTIVITIES DIRECTOR



WILLIAM FLIGHT  
TREASURER



GEORGE BAUER, III  
VICE PRESIDENT



ROBERT TECHENTIN  
PRESIDENT



VIC HASLER  
SECRETARY



WARREN HOOVER  
HOUSE MANAGER



ROBERT SCHRYER  
STEWARD



DAVID NIERMAN



DAVID BATTÀ



MATTHEW MAGINLEY



ALLEN MARTIN



MARK FREDERICKS

Triangle

19



83

Rose-Hulman  
Institute of Technology



WILLIAM HELLER



THOMAS SUTLIFF



DAVID BRUMBAUGH



PAUL JOHNSON



JAMES GRIFFIN



WILLIAM PATTERSON



LEWIS MURRAY



JOHN WEIS



ANN SAGRAVES  
HONORARY HOUSEMOTHER



DAVID GOY



LOREN COOK



KEVIN DONOVAN



BRUCE FRYTZ



MICHAEL TALLEY



BRIAN HERR



CARY LAXER



ANTHONY DENNIS



KEVIN LIEKHUS



CRAIG METTLACH



CHARLES HASTINGS



RICHARD KOEHN



DAVID SILLS



DAVID MOBLEY

EDWARD VANTINE, Student, Hamilton, IL 20554



Triangle continued to grow this year in many areas of fraternity life. Outside the classroom, our interaction with the faculty was broadened through dinners ranging from the large Thanksgiving banquet with the Rose community to small informal meals. We also initiated dinners with interviewers and visitors to Rose which proved to be profitable to all.

Of course, we had fun, too, with activities from the intramural sports, Greek Games (which this year marked the debut of the new Triangle cart), our Little Sister slave sale, and our Founder's Day celebration. The rush parties and Maze Dance also were successful. This year was also Dr. Lewis' year. Triangle fraternity named Dr. Dennis Lewis "Teacher of the Year" at a ceremonial dinner.



# TRIANGLE



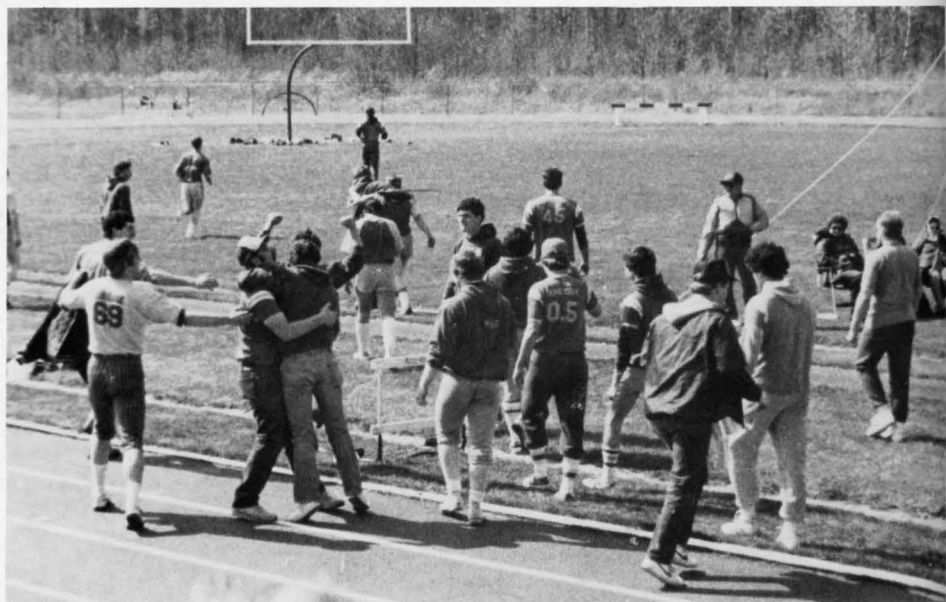


# GREEK GAMES

Late in April, the true signs of life returned to nature and also to the Rose-Hulman campus. After remaining pretty much dormant for the entire year, herds of people and explosions of excitement rocked the school. It's Greek Weekend!

Lambda Chi Alpha again dominated the competition for the 18th time in the 19th annual games. They took four of the six events: the cart race, canoe race, the obstacle course, and the tug-of-war. The first three events had been won by LCA for the past three years and those trophies were retired and became a permanent part of the LCA house. Alpha Tau Omega put up a good battle for the championship of the cart race by winning one of the heats, but to no avail, Lambda Chi came back to win the overall event. The Egyptians could have learned a few things from Sigma Nu, who took first place in the 15-man pyramid. The stiff breezes experienced during the games may have been attributed to the vocal chords of Phi Gamma Delta. For the fourth year in a row they took the first place award in the Songfest. Fate plagued the Delta Sigma Phi team from start to finish. The sinking of their canoe turned the canoe race into a submarine battle.

After all of the smoke had cleared, or otherwise known as Terre Haute air, the final tabulation from the competition was in. By no surprise, Lambda Chi Alpha were the overall champs, then next was Sigma Nu, Phi Gamma Delta, Alpha Tau Omega, Tri-angel, and Delta Sigma Phi.



ΑΤΩ ΔΣΦ ΘΞ ΛΧΑ



## ΣΝ TRIANGLE FIJI



# G R E E K      G A M E S

ΛΧΑ  
ΣΝ  
ΡΗΔ  
ΑΤΩ  
ΤΣΙ  
ΔΤΠ



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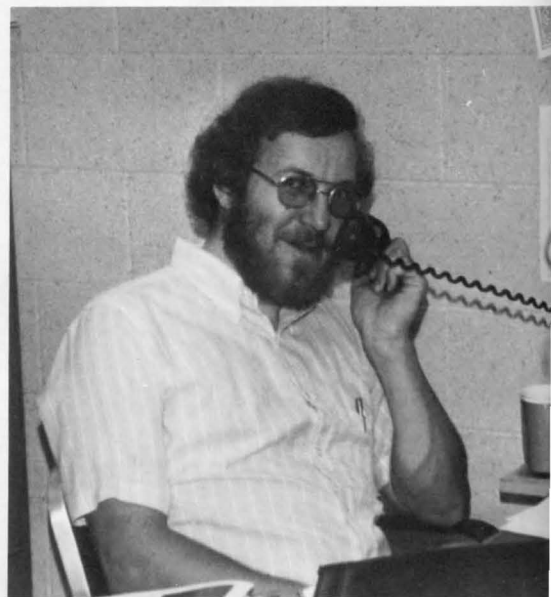
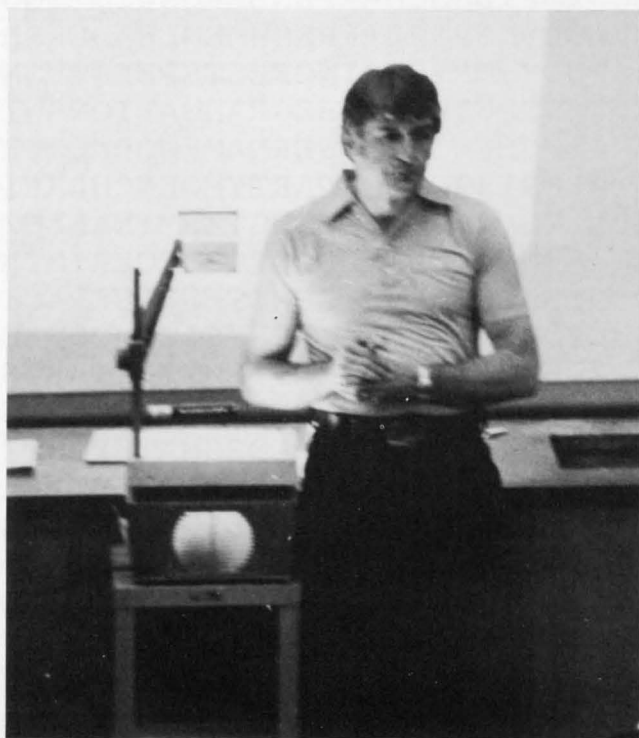
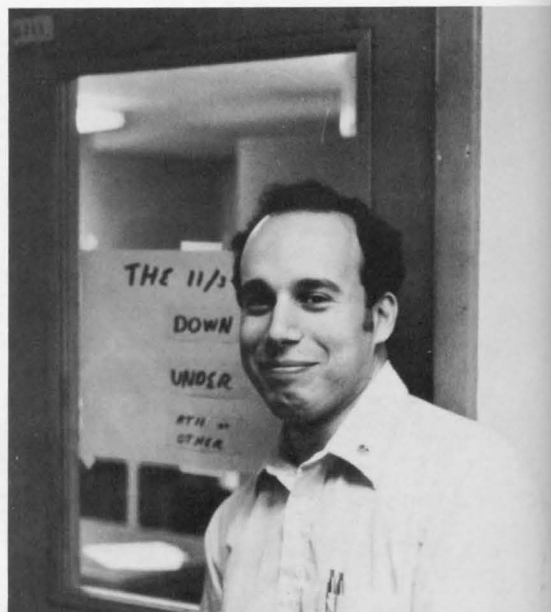
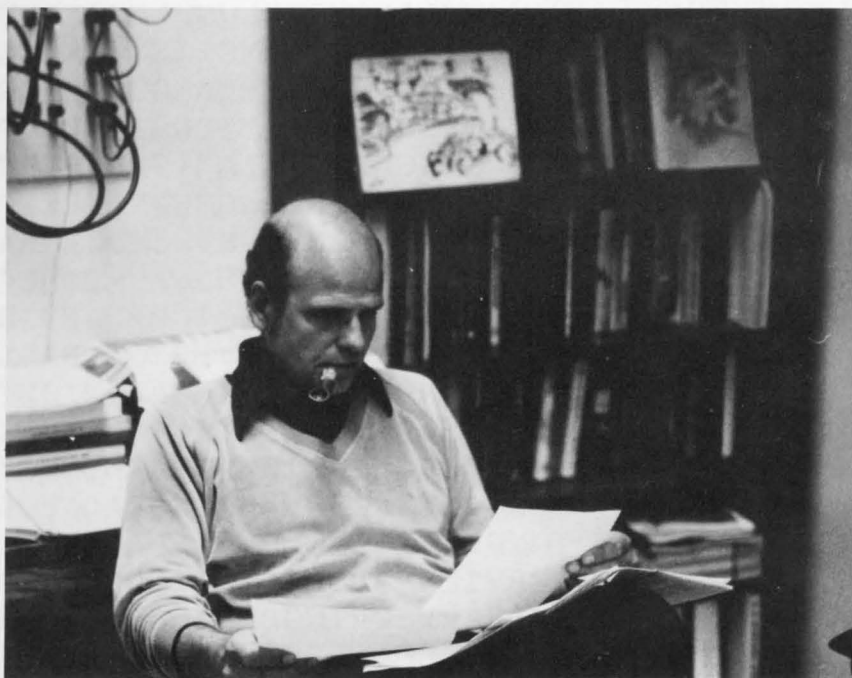
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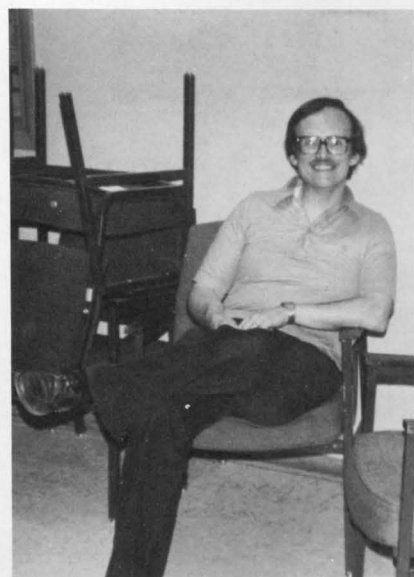
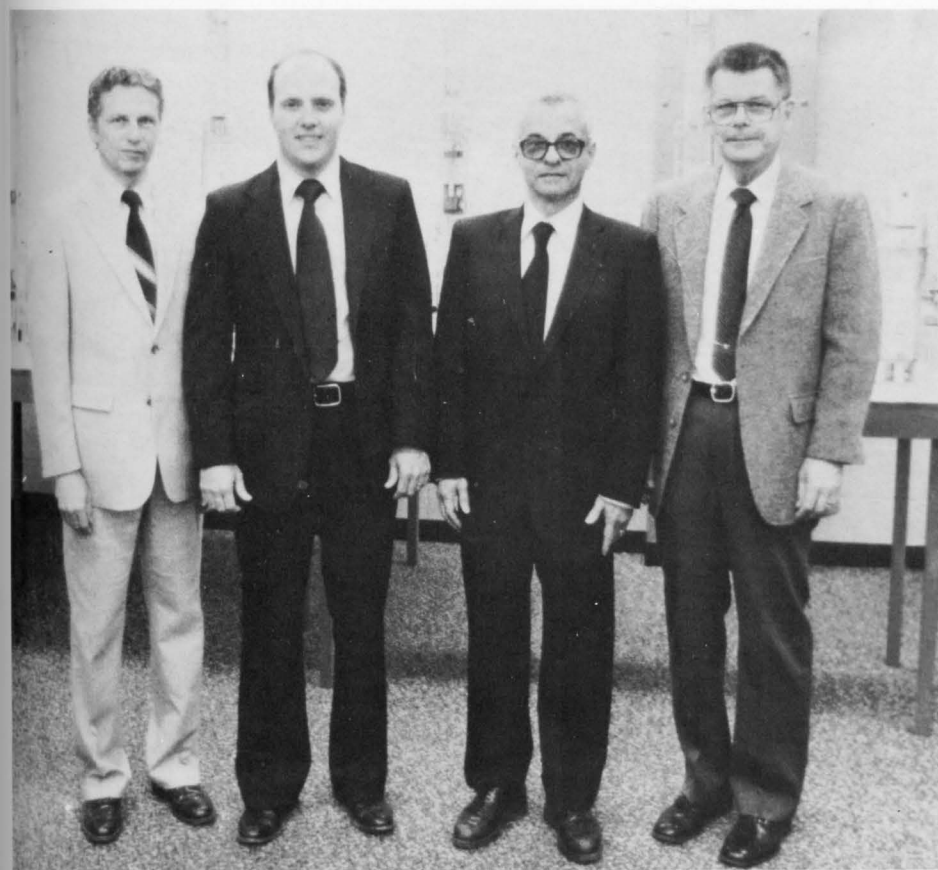
# ACADEMICS

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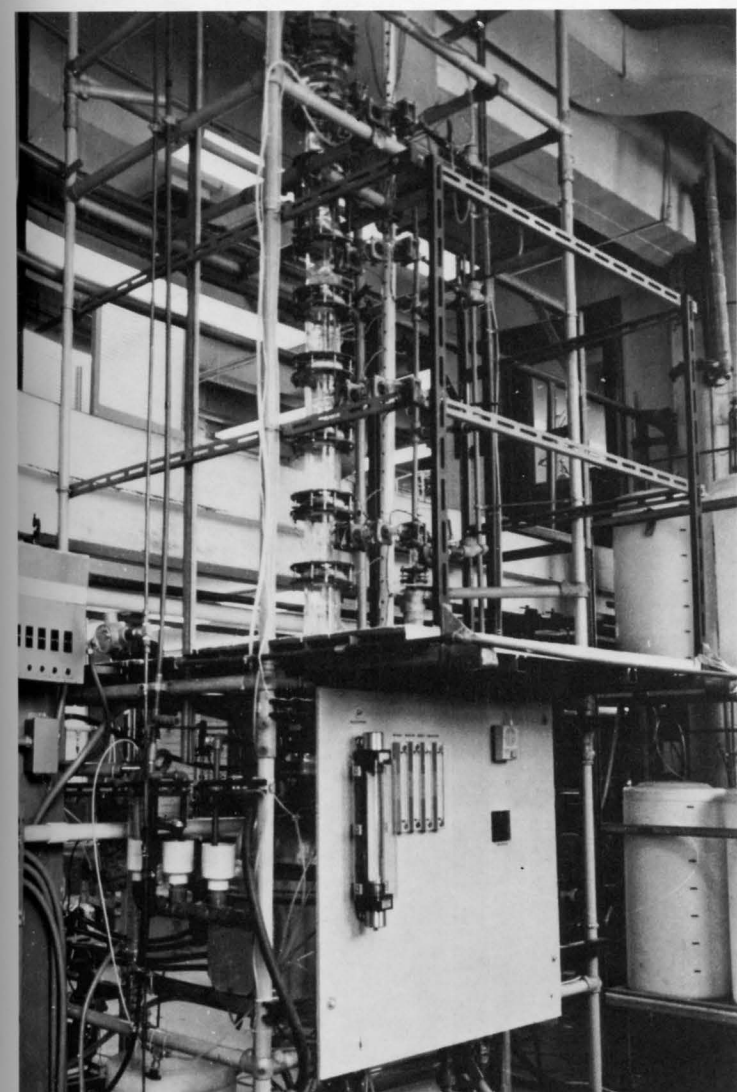
# Academics at Rose





Dr. Paul Hogan relaxes a moment.

Drs. Jerry Caskey, Ron Artigue, Warren Bowden and Sam Hite. Dr. Noel Moore was on sabbatical leave during 1982-83.



## CHEMICAL ENGINEERING IS . . .

The Chemical Engineering Department prepares students for careers in the chemical process industries. The industrial experience of the faculty helps keep the department abreast of new industrial developments, and this experience is also passed on to the student. This gives the student a good idea of life after Rose in the industrial world. The Chemical Engineering Department will be moving into Olin Hall by next fall. The new facilities in Olin will allow the curriculum to include more use of computers in lab for process control. There will also be sufficient room to allocate a lab to the study of polymers and plastics. Facilities for a small group of graduate as well as undergraduate directed research will be available. The department will be losing one of its finest members. Dr. Tom Hanley has accepted the position of Chairman of Chemical Engineering at Louisiana Tech. His talents will most definitely be missed.





Professors Bruce Allison, Glenn Baca, Ed Mottel, Ted Sakano, Dennis Lewis, Steve Gregory, Frank Guthrie and Ben Benjaminov.

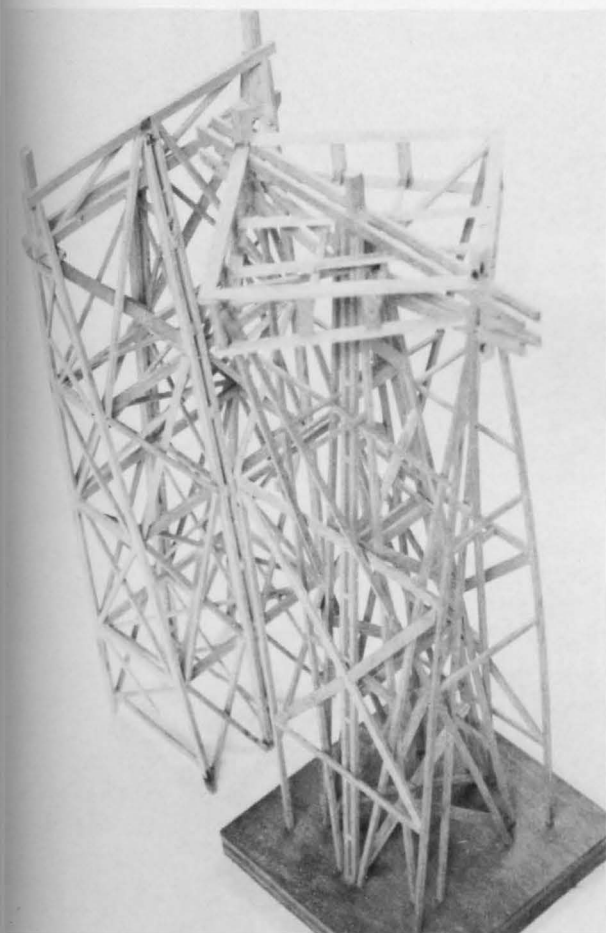
## CHEMISTRY IS . . .

The chemistry program at Rose is ranked as one of the best undergraduate programs in the United States. One of the reasons for this reputation is the current and innovative curriculum. At the moment the department is intensifying its use of computers in chemical applications. During the '83 summer Drs. Sakano, Lewis, and Baca will be attending seminars which deal with computer aided chemistry in the undergraduate curriculum. This year Dr. Baca received the Outstanding Teachers Award and Dr. Guthrie was given special recognition by the American Chemical Society for his work in the field of analytic chemistry.





Professors Mark Berrio, Daryl Logan, Martin Thomas, Jim McKinney and Cecil Lobo.

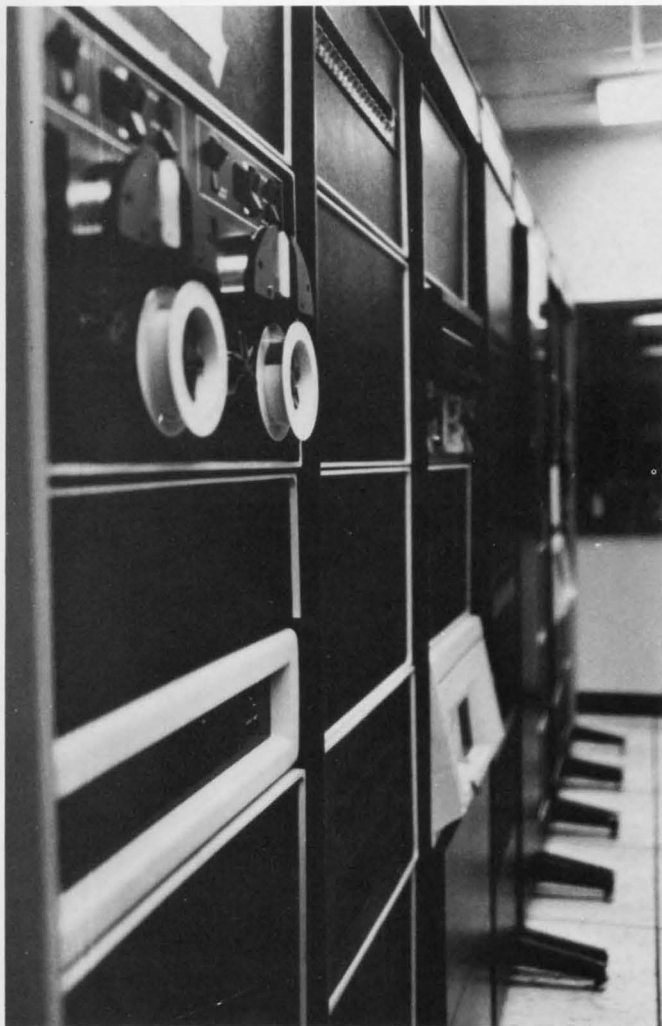


## CIVIL ENGINEERING IS . . .

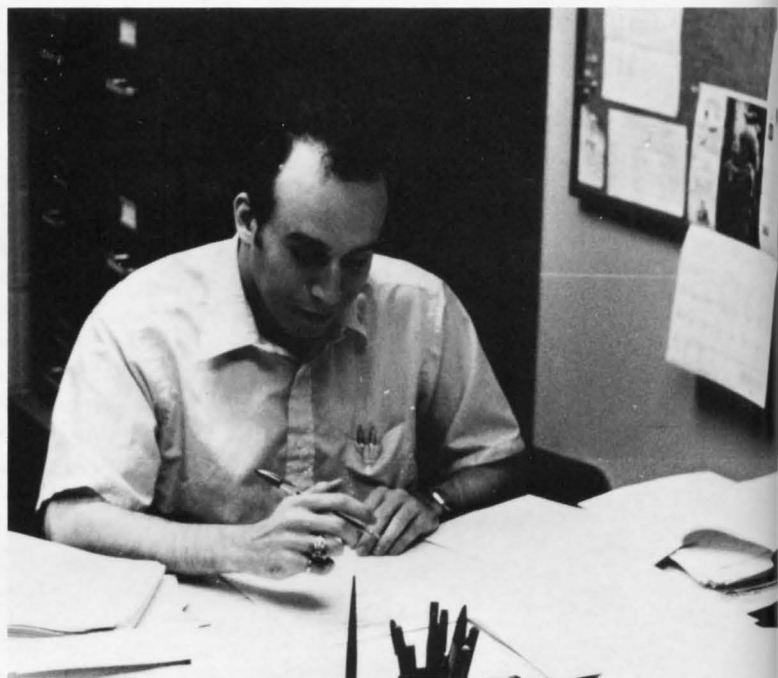
The civil engineering program stresses the basics of mathematics and engineering and then helps to shape the students skills in his desired field of concentration. Civil engineering will become a separate division from mechanical engineering on the first of September. The civil engineering department will also be moving into Olin Hall by next fall. The Olin facilities will greatly enhance the curriculum of the department.



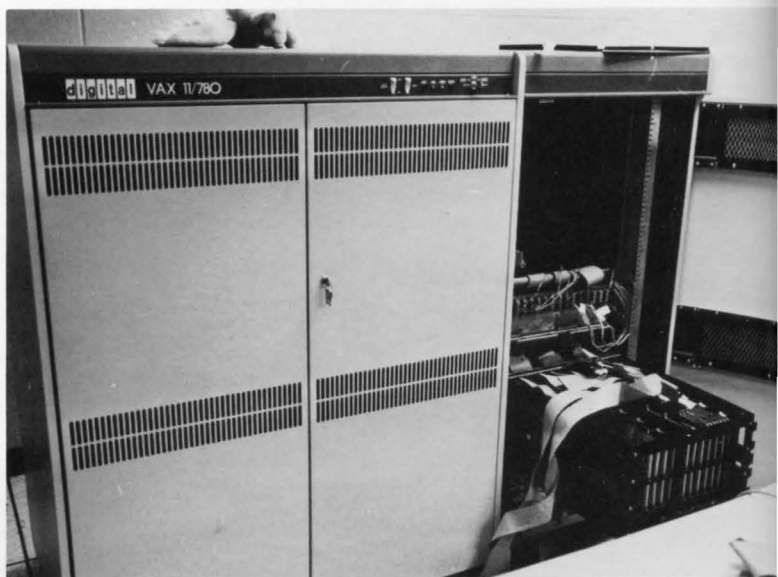
## Computer Science Is . . .



Above, Dr. Darrell Criss. Below, Dr. Cary Laxer.

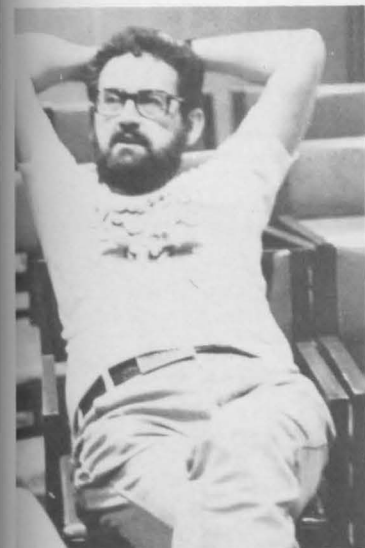
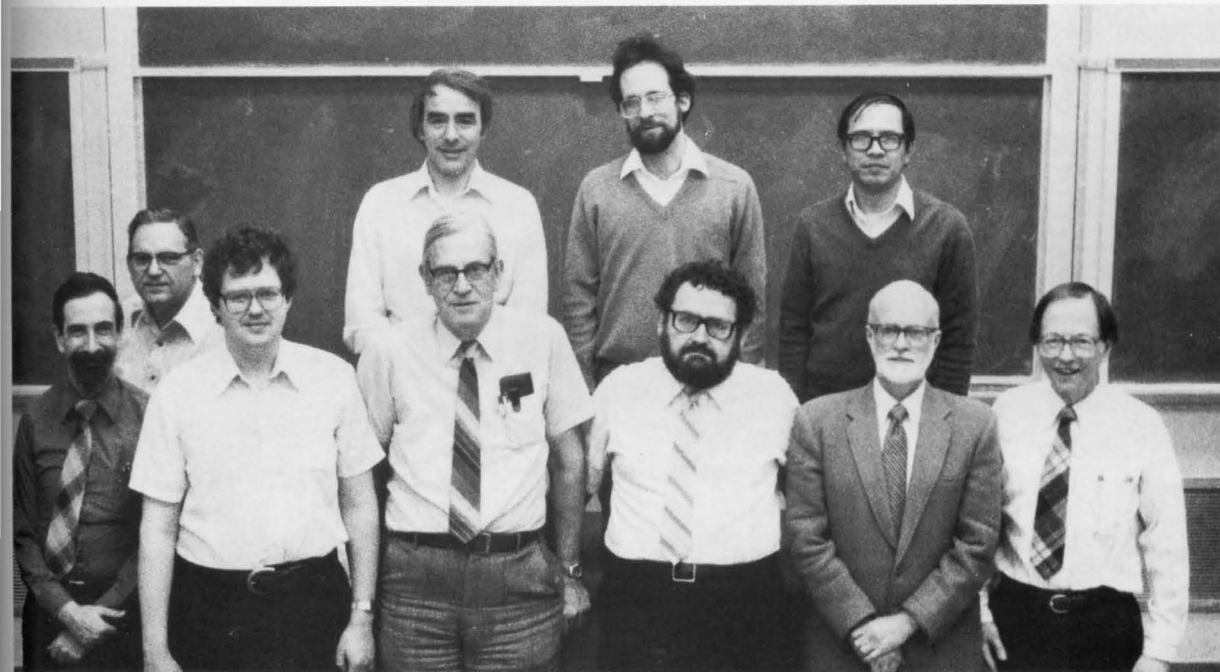


The computer science program at Rose has the objective of thorough preparation. This is accomplished by a well-rounded curriculum that involves both the study of programming procedure and the functional electronics of the computer. Currently the department is developing software for computer-aided instruction in the CS100 curriculum. A new faculty member, Dr. Peter Reynolds, will join the department for the '83-'84 school year.

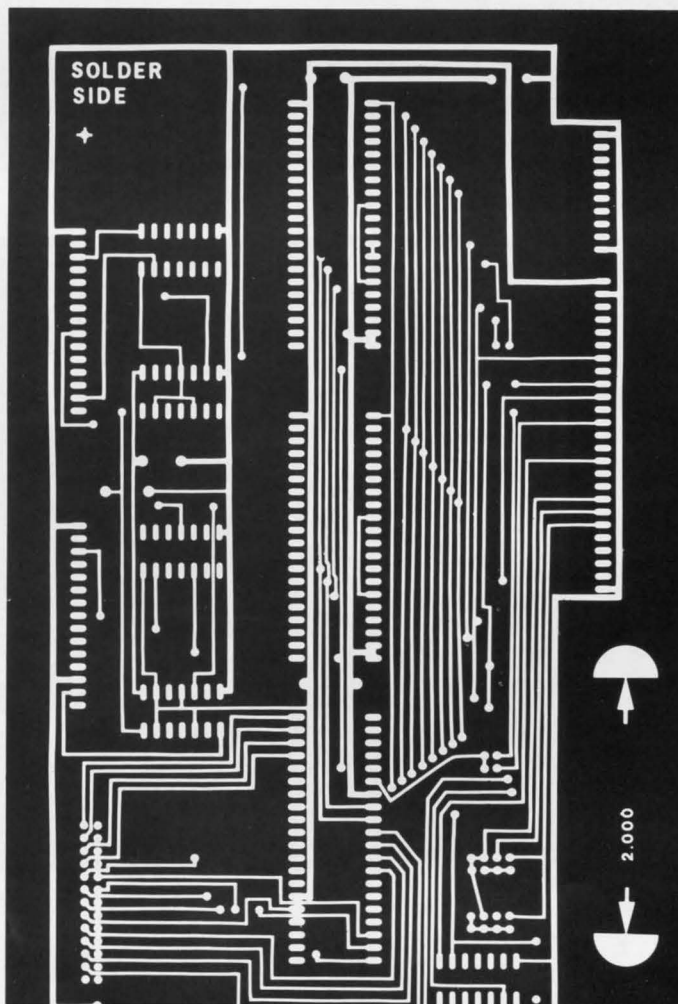


The Electrical Engineering Department strives to keep as current as possible in the ever-changing field of electronics and electrical controls. This past year the faculty has gained two new members, Drs. Barry Farbrother and Carlos Trevino. A new course covering the topic Advanced Microcomputers was added in the fall. Next year the department will offer several new courses, including Satellite Communications,

Control of Power Systems, Microprogrammable Microcomputers, and Phaselock Technique. Another new member will be joining the staff, Dr. Bruce Black. During this past year Dr. Jeff Froyd received a Lilly grant for the development of basic EE courses, and Dr. Ted Robles received two grants for laboratory equipment, one from Illinois Power, the other from Balder Electric.



Prof. Derry relaxing with student.



Front row, L-R: Dr. Bruce Black, Dr. Keith Hoover, Dr. Glen Richardson, Prof. Jack Derry, Dr. Henry Winton, Dr. Buck Brown. Back row, L-R: Dr. Dave Smith, Dr. Dave Voltmer, Dr. Jeff Froyd, and Dr. Ted Robles. Dr. Barry Farbrother is not pictured.

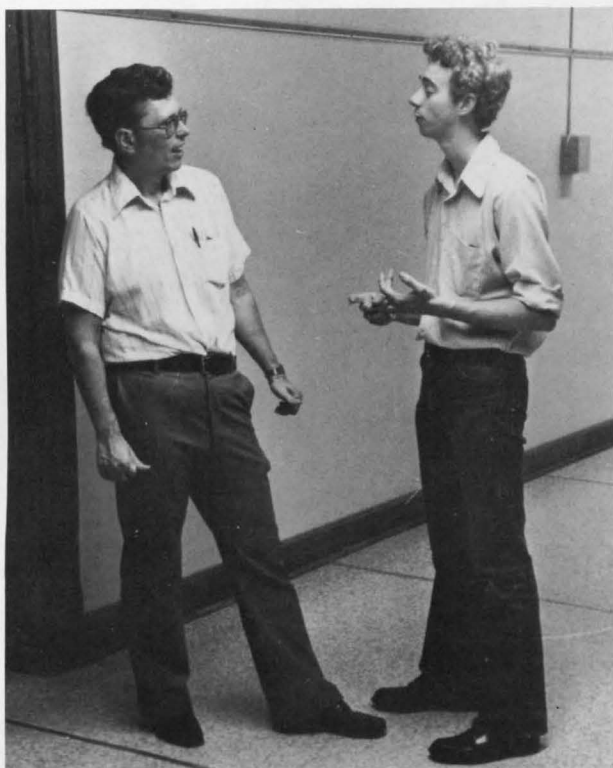


## HUMANITIES ARE . . .

The Division of Humanities, Social and Life Sciences provides the engineering or science major with a vent for self expression. The department has many goals and perhaps they can be expressed by the statement: "the humanities department at Rose wants to assure that when a graduate leaves Rose he will be able to effectively reason and communicate with the people around him." In the coming year a new area of concentration will be offered. A certificate in management studies will be available to any student

completing the correct courses. This certificate will be similar to the technical translators certificate.

Members of the department have also been very busy. Prof. Peter Priest has been on sabbatical doing research related to the Russian technical translators program. Valery Petrochenkov taught the courses in Russian for Prof. Priest as a visiting professor. Next year Prof. Petrochenkov will be teaching at Bowdoin College in Maine. Dr. Pat Brophy will take a group of students to Russia this summer.



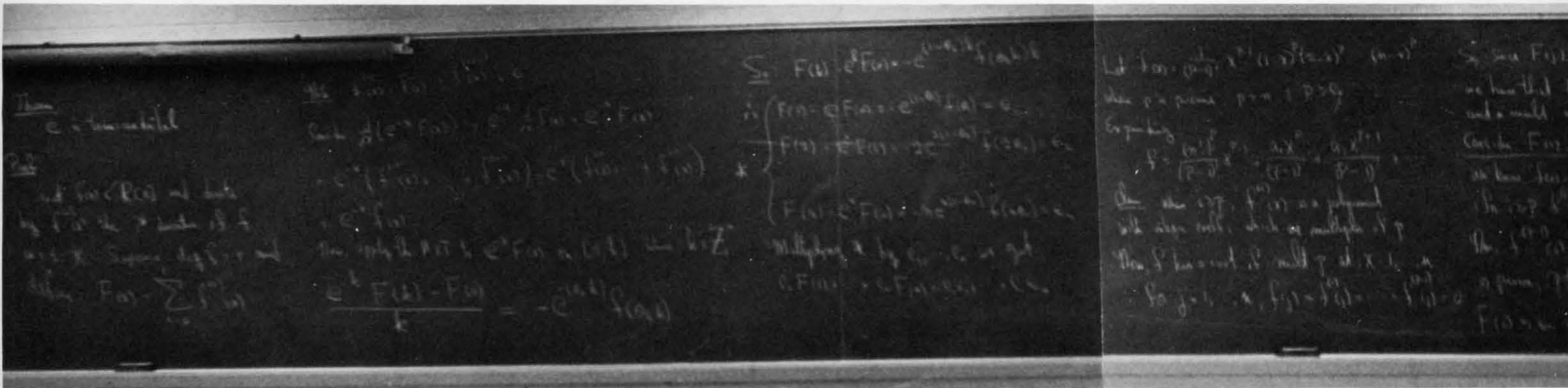
L-R: Prof Lou Harmening, Dr. Thad Smith, Dr. Peter Parshall, Dr. Heinz Luegenbiehl, Dr. Maureen Krause, Dr. Sam Vuchinich, Dr. Patricia Carlson, Dr. Pat Brophy, Dr. John Ying, Dr. Tom Mason, Dr. Valery Petrochenkov, Dr. Cal Dyer, Dr. Hannelore Lehr. Not pictured is Dr. William Pickett.



# Math Is . . .



L-R: Dr. John Kinney, Dr. Ralph Grimaldi, Prof. Al Schmidt, Dr. Brian Winkel, Dr. Denis Radecki, Dr. Gary Sherman, Dr. Herb Bailey, Dr. Damon Disch, Dr. Elton Graves, Dr. Robert Pervine, Prof. Dale Oexmann.



The mathematics program is designed with the intent of giving the essential analytic and computational skills required for scientific and engineering applications. For the next academic year, Prof. Dale Oexmann will be on special leave and Prof. Roger Lautzenheiser will return from his sabbatical. A new professor, Dr. Constant Goutziers, will be joining the staff of the Math Department in the Fall.

A native of the Netherlands, Dr. Goutziers received his degree from Delft University in the Netherlands. Other items of interest in the department include Dr. Herb Bailey's trip to the People's Republic of China, Dr. Damon Disch's invitation to return to the Lewis Research Center for the summer, and Dr. Gary Sherman's receipt of the Inland-Ryerson Foundation's Outstanding Teacher Award during the 1982 Homecoming celebration.



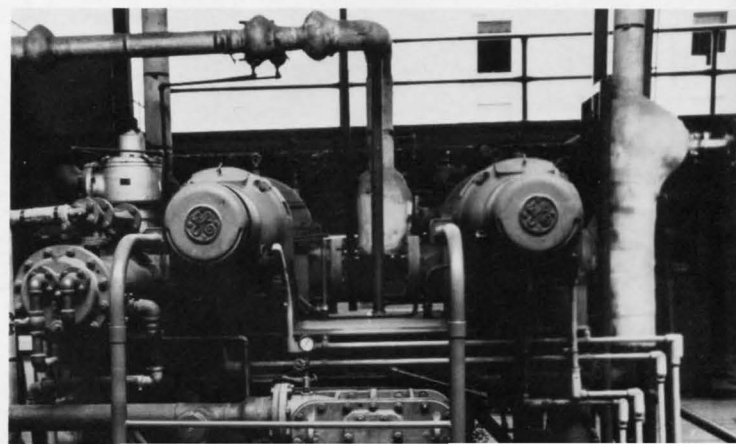


Front row, L-R: Dr. Bill Ovens, Dr. Leland Shirely, Alan Youngblood, Dr. Wayne Sanders, Prof. Robert Steinhauser and Mike Fulk.

Back row, L-R: Prof. George Batta, Dr. Irv Hooper, Dr. Donald Morin, Dr. Charles North and Dr. Donald Chiang.

## Mechanical Engineering Is . . .

Mechanical engineering is well based in the basics of science and engineering. It also stresses design and analysis of systems and machines. One of the general goals of the department is increasing the use and understanding of the computer in applied mechanics. The Mechanical Engineering Department will offer three new courses for the 1983-84 school year. Those courses are Philosophy of Design, Reliability of Design, and Production Engineering. During the past year Dr. North received a grant from NASA for research in vibration damping and Drs. Dekker and Smith went to Delft University in the Netherlands where the professors gave talks on design.



## Military Science Is . . .



Front row, L-R: Capt. Paul Patrick, Capt. Steven Sims, Maj. Jerrold Tsuneta, MSG Robert Gorham, SFC Darnell Wyatt. Back row, L-R: Maj. John Spengler, SGM Charlie Frazier, Lt. Col. Stephen Gibson, Maj. Roger Casale and MSG John Marlin.

The military science program is an important link in teaching leadership qualities. The department does a superior job of helping the freshman adjust to college life. They also put forth a tremendous effort to help with the freshman bonfire. Overall, the military science department greatly enhances school spirit. Lt. Col. Steve Gibson will be leaving Rose during the coming summer. He will retire from the Army effective July 1 and will be teaching junior ROTC in Shreveport, Louisiana. Lt. Col. William Kakel will be replacing him.



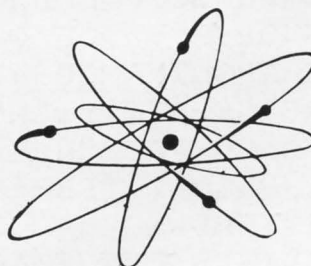
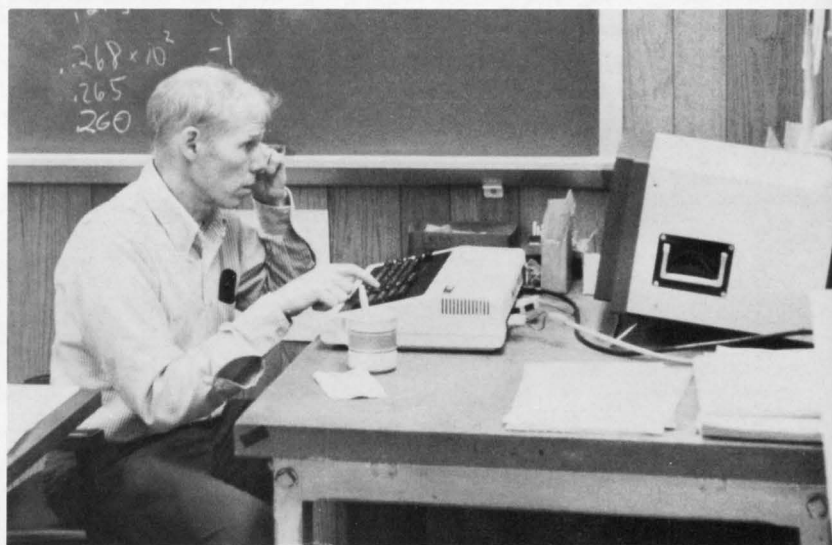




L-R: Dr. Don Hutter, Dr. Wilkison Meeks, Dr. Brij Khorana, Prof. Paul Mason, Dr. Jerry Wagner, Dr. Mike Moloney. Not pictured are Dr. Granvil Kyker and Dr. John Maasen.

## Physics Is . . .

The physics curriculum is structured to allow the student to specialize in his particular field of interest while still requiring a good strong background in classical and theoretical physics. The members of the faculty actively pursue new knowledge to stay at the leading edge of their field. For instance, during the coming summer Dr. Mike Moloney will be doing work with computer modeling of the FET transistor under a mini-grant from the Air Force. Dr. Don Hutter will spend the summer studying astronomy at the Naval Research Lab in Washington, D.C. on a faculty fellowship. Dr. Jerry Wagner will be on sabbatical for the 1983-84 school year working on integrated optics in intergrated circuits at the University of Cincinnati. For the coming fall the Physics Department will be offering a new area minor in optics. The department will also have two new members, Dr. Robert Bunch from San Diego State University and Dr. Michael McInerney from Kent University in England.

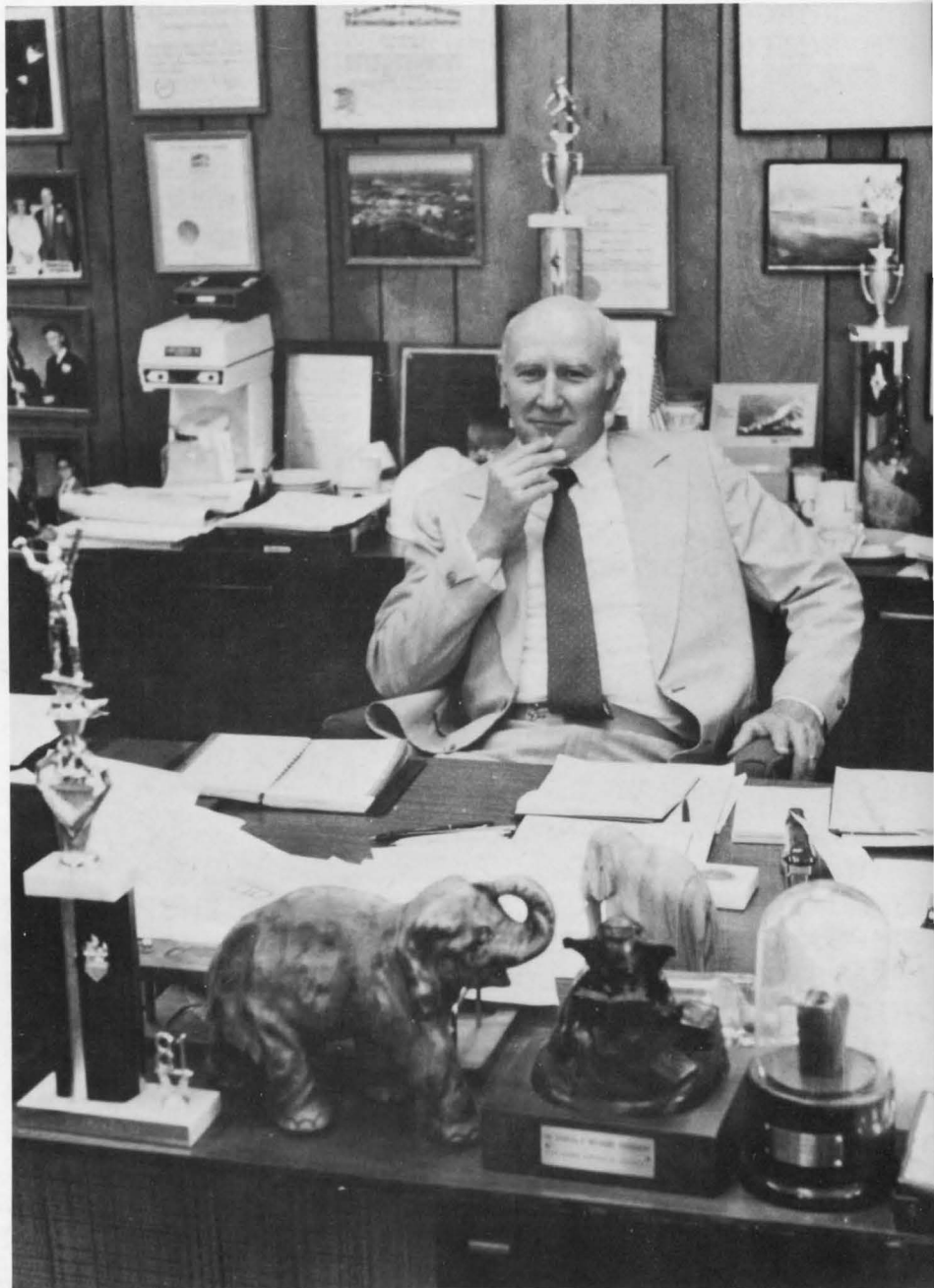


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# President Hulbert

Building for Tomorrow



## Secretary to the President



There is the adage "that behind every good man is a good woman." Generally, it refers to a marriage, but it also is apropos for this salute to Mrs. Pauline Griffith, who will retire in August as administrative assistant to the president of Rose-Hulman.

Mrs. Griffith, who joined Rose in 1953 when Rose-Hulman had less than a half-dozen female employees, has served as secretary or administrative assistant to four presidents. It has often been said that Mrs. Griffith should write the "real history of Rose."

During her tenure Mrs. Griffith has witnessed a growth in the student body from slightly over 450 in the middle 1950s to the 1,300 of today. When she arrived on campus the only buildings which existed were the Main Building (later named Moench Hall), Deming Hall, the fieldhouse and the carpenter shop.

Members of the faculty and staff, including a number of

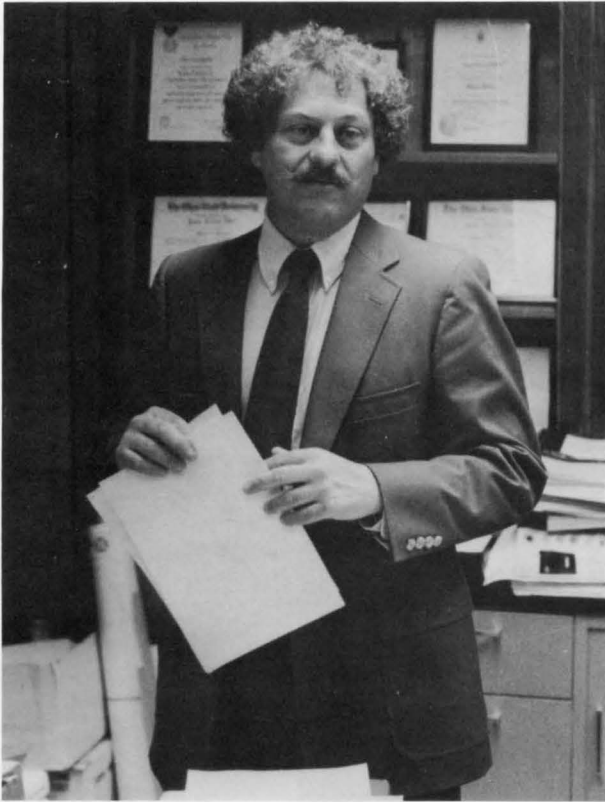
emeritus faculty and former employees, surprised Mrs. Griffith with a farewell party. President Hulbert helped keep the farewell light by announcing that the first course of the meal would be Mrs. Griffith's favorites—a large sack of popcorn and a carton of Coca-Cola.

A number of persons gave testimonials. Dr. Hulbert praised her years of service, her professional manner and, in a humorous close, suggested that Mrs. Griffith "has been the president all these years." Benjamin Cox, former chairman of the Board of Managers, likened Mrs. Griffith to Henry Kissinger and his role with a number of U.S. presidents. Retired PBX operator Mary Collier said Mrs. Griffith only knows one speed—fast—and called her a human dynamo.

The Modulus adds its congratulations to Mrs. Griffith and wishes her well in her retirement.



# Dean of Faculty



Dr. James Eifert, Vice President for Academic Affairs and Dean of Faculty



Ruthanne Bastian, Administrative Assistant to the Vice President for Academic Affairs

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# Registrar



Louis Harmening, Registrar

# Office of Student Affairs



Dr. Jess Lucas, Vice President for Student Affairs and Dean of Students



Margaret Szczesniak, secretary, above Kathy Gambill, Administrative Assistant and secretary



Tom Miller (left), Director of Residential Life; and Peter Gustafson, Associate Dean of Students



# Union Office and Residence Staff



Donna and Peter Gustafson

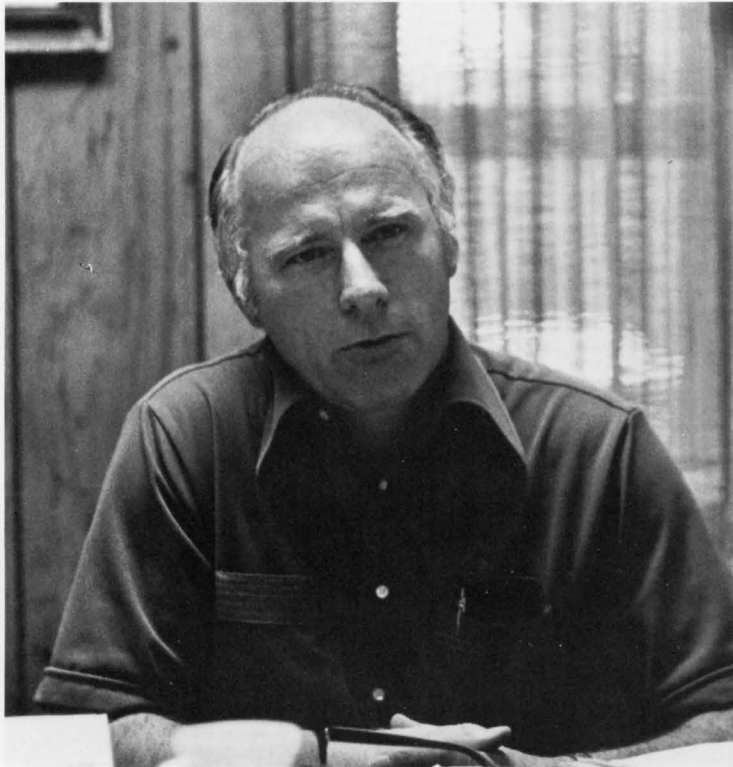


Irene Mitchell, Union office



Tom Miller, Head Resident & Coach

# Development



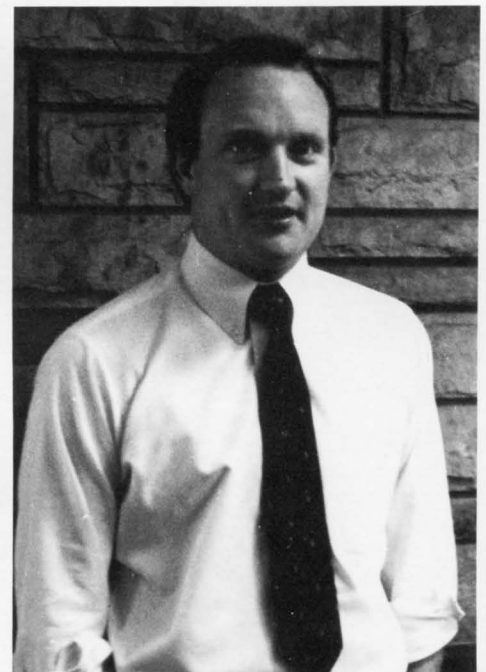
**William Sisson, Director of Placement**



**Kent Harris, Director of Public Relations**



**Donna Burns, Secretary, Public Relations**



**Bruce Anshutz, Associate, Public Relations**



# Administration and Finance



L to R, Frances Fletcher, Jeanette Ford, Jan Brown, controller, Margaret Rosser, Maureen Nichols, Phyllis Proctor, Mary Daugherty, and Billie Holechko.

# Faculty Secretaries

L to R, Pat Ruark, Barbara Shaw, Evelyn Keamey, Donna Snedeker, Joan Colica, Elizabeth Dayton, Betty Moore, and Mary Lou McCullough.



# Admissions



Brian Dyer, Charles Howard and Tim Prickel



Mary Casey, Mary Kay Matson and Sue Mills

# Administrative Services



Stephen Miller, director; Paulette Irwin, PBX—receptionist; Bettie Evinger, assistant; and Jack Bagley, print shop manager.

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## Bookstore



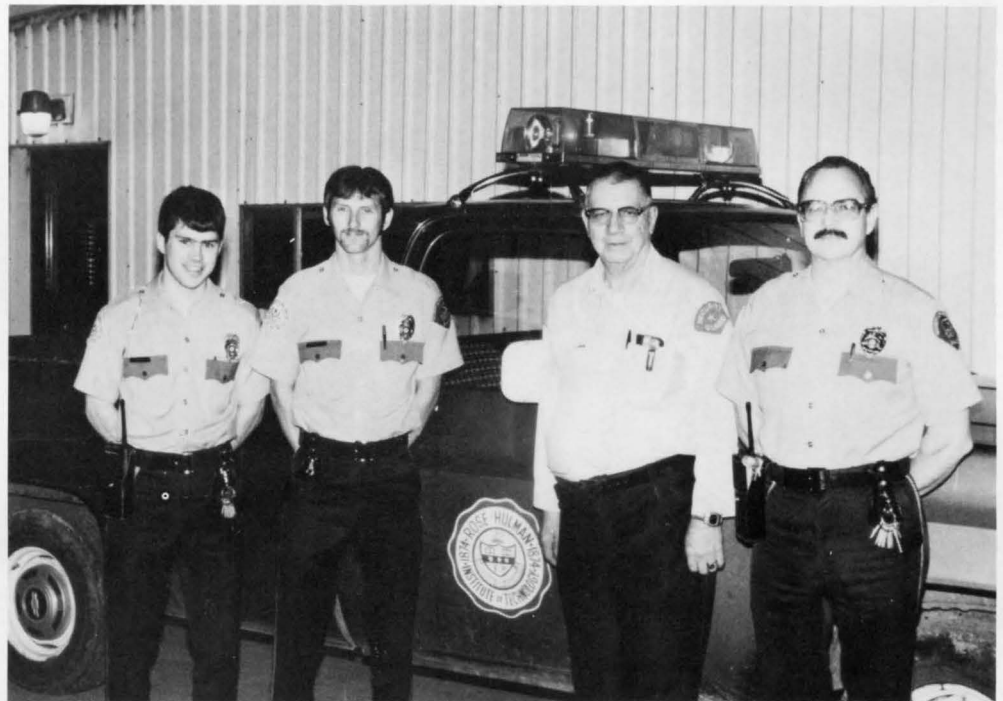
Anita Creasey, Bookstore manager, and Judy Garrett, assistant.



## Security



Gary Flora, head of security



L to R, Tom Mitchell, William Wilson, Charles Holbert, and Bob Johnson.

## Technicians

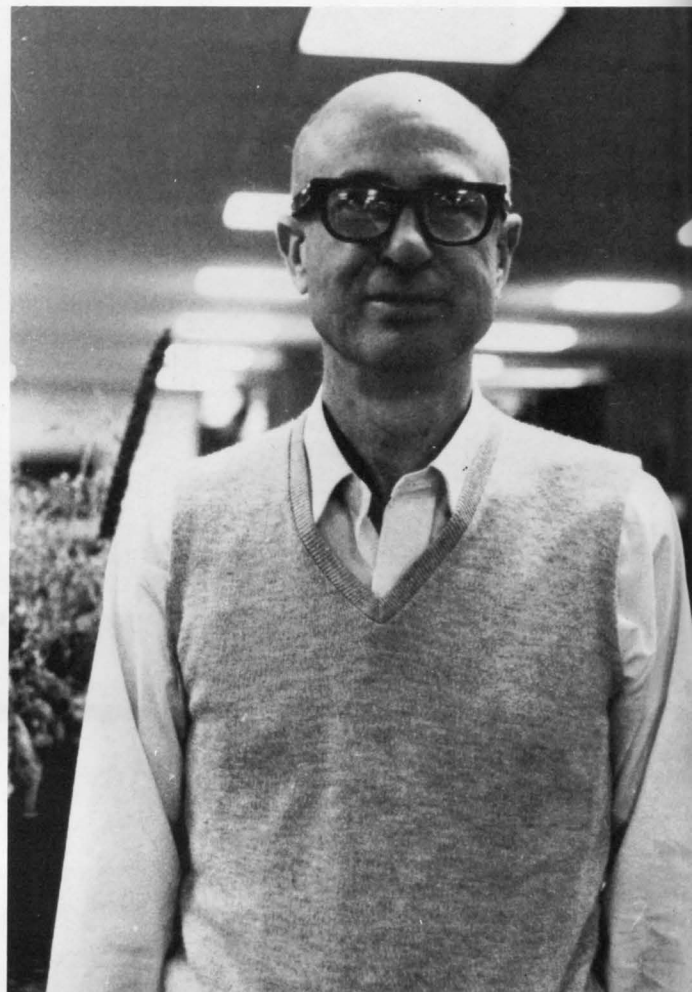


L to R, Frank Cuning, Gary Burgess, Alan Youngblood, Dave Gahimer, Bill Lancaster, Mike Fulk, and Bernie Timberman.

## Library Services



L to R, Sondra Nelson and Margaret Ying, Library administrative assistants.



Herman Cole, Jr., Librarian

## Health Services



Ella Louise Haymaker, Director of Student Health Services

# ARA



L to R, Mark Farner, Mark Corbett, Alan Snyder, and Glenda Donegan.



Clockwise from left, Jackie Johnston, Peggy Potts, Lynn Prouse, and Mary Ann Criss.





# Buildings and Grounds



Back Row L to R, Tom Terry, Marvin Fields, Jim Biekman, Jack Whittington, Tom Thompson, Walter Targett, Bob Cutsinger, Bob Lawson, Ross Arnold, and Paul Phillips. Front Row L to R, Cecil Fennell, Howard Smith, John Watkins, and Fred Smith.



Paul and Betty Phillips

# Buildings and Grounds



Back Row L to R, Tom Sivenson, Bill Hayden, John Lewis, Richard Mott. Front Row L to R, Oscar Purcell, Velva Cutsinger, Kathleen Barnhart.



L to R, Raymond Ross, Norma Lawson, and Jack O'Dell.

# Computing Services



L to R, Bruce Danner, Sue Storckman, Tom Roper, Bernie Timberman, and Kevin Davidson. Not pictured Larry Alldredge.



Carolyn Kelly



# Athletics

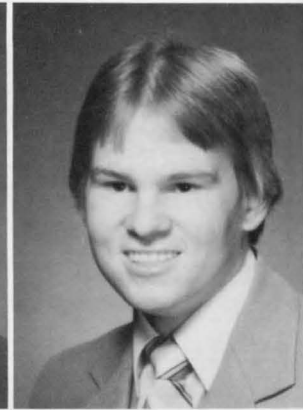
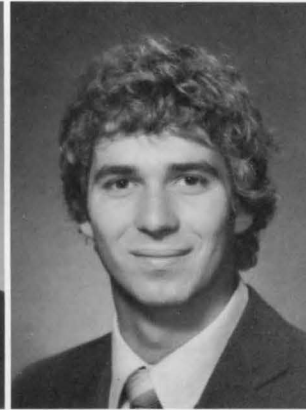
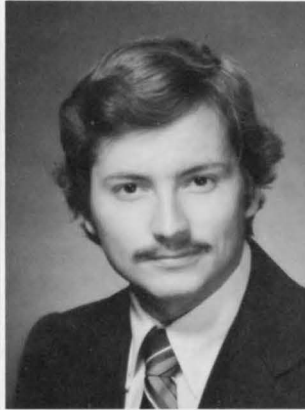
L to R, Bob Thompson, Randy Dickens, John Mutchner, and Til Panaranto



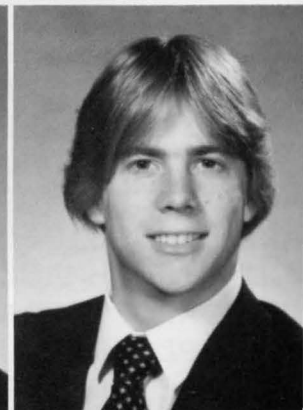
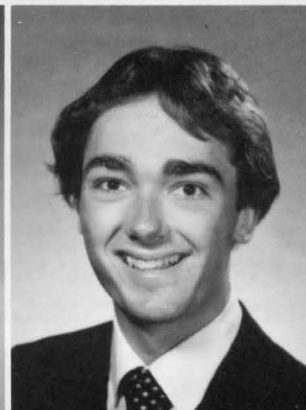


# Seniors

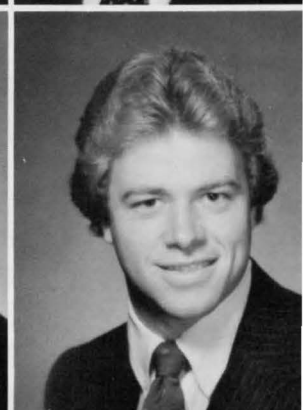
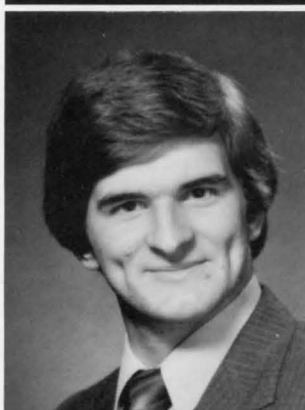
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Steven G. Ankney  
Dale S. Arand



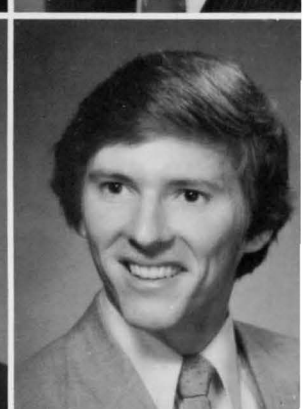
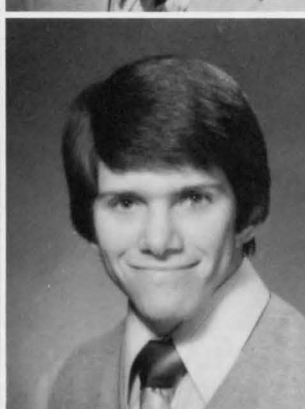
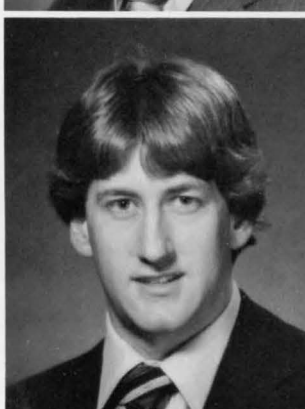
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William D. Arnold  
Gregory S. Augspurger  
Michael D. Auld

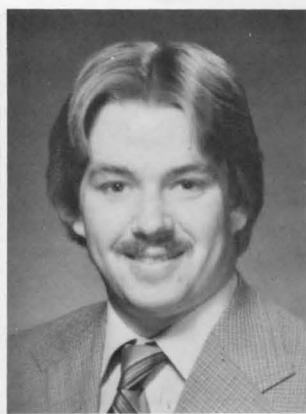
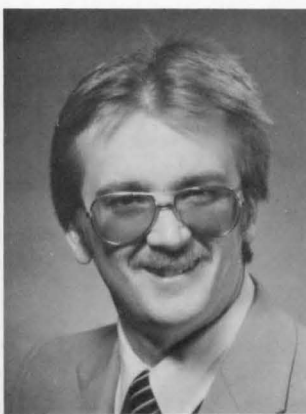
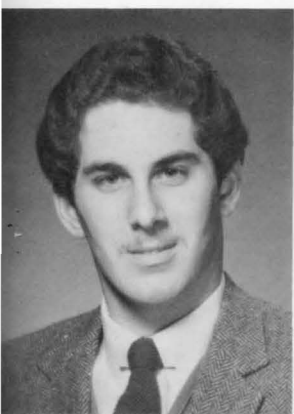


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Jeffrey L. Baldwin  
Mark E. Bandy  
David G. Barnes

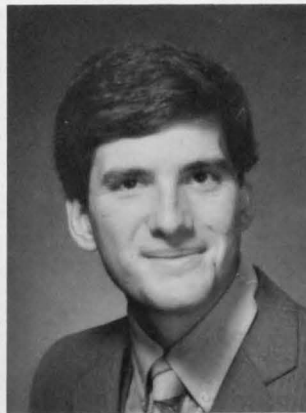
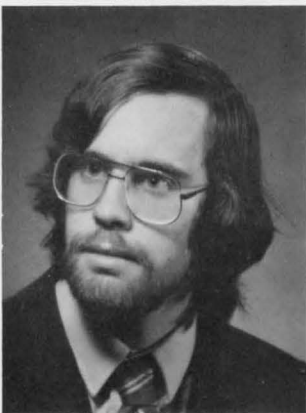
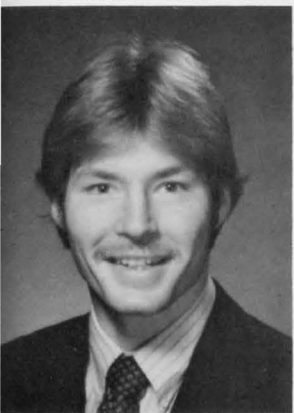


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Gary S. Bechman  
Ralph C. Belknap  
John A. Bellamy

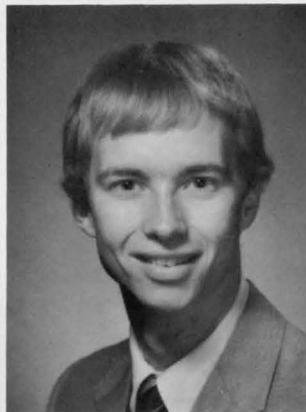
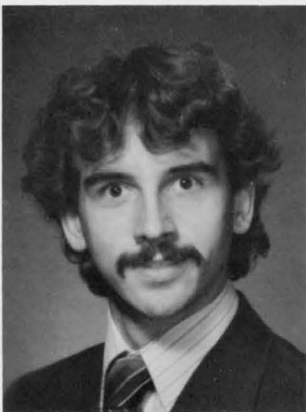




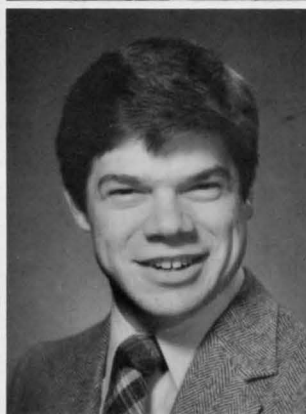
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Steven C. Bishop  
Michael Blankenship  
Robert N. Bolin



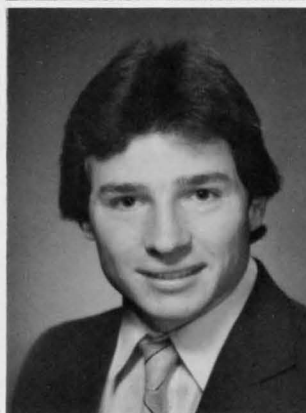
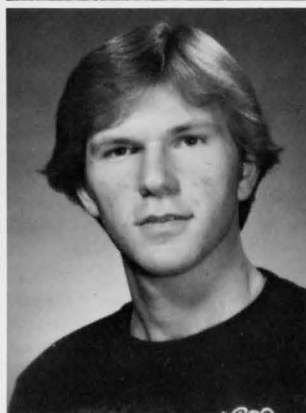
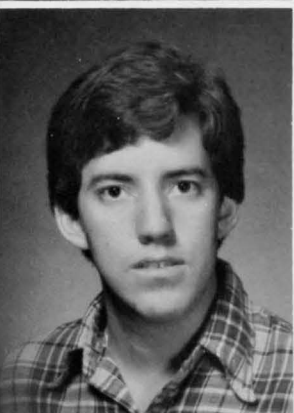
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David L. Brannan  
Ed R. Brett  
Richard I. Brinly



Ian R. Brockie  
Michael J. Brown  
William E. Browning  
Anthony J. Buechler



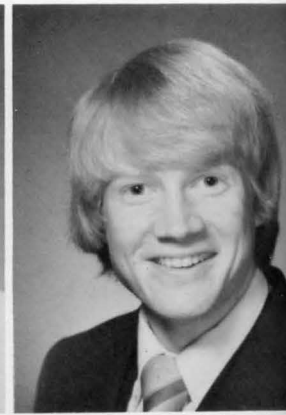
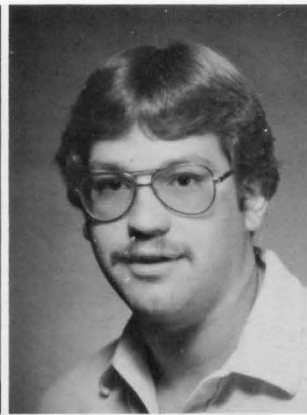
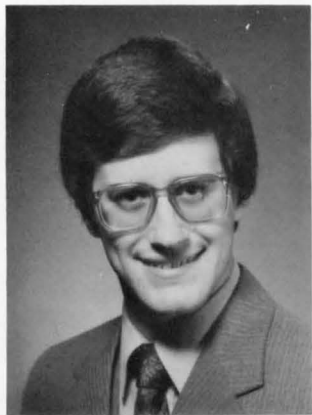
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Joseph E. Burns  
Floyd R. Burton  
Douglas M. Byrum



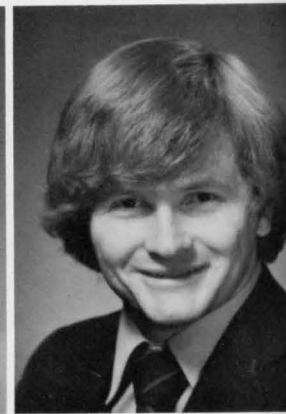
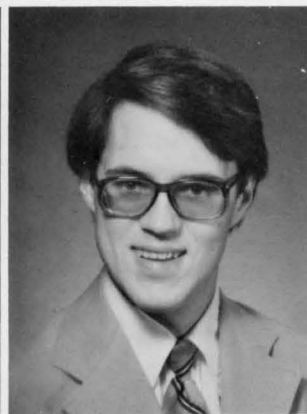
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Andrew E. Cate  
Anthony C. Cerny  
Brian S. Chastain



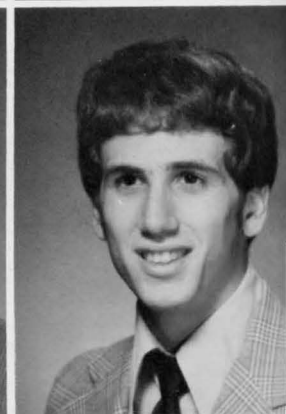
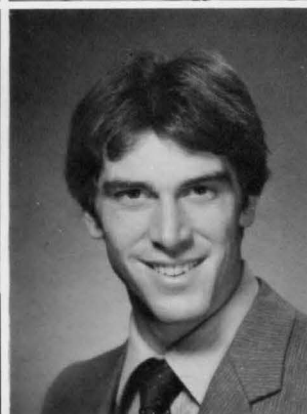
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 Dennis W. Churilla  
 John Clark



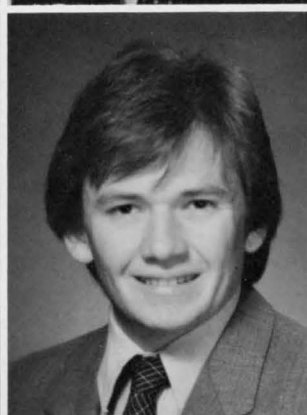
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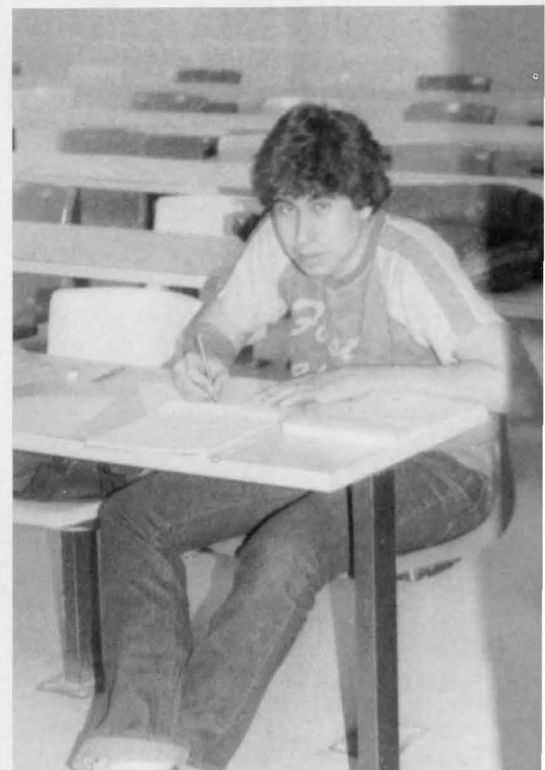
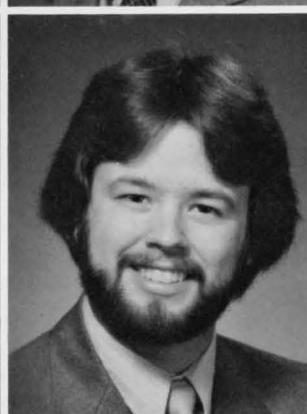
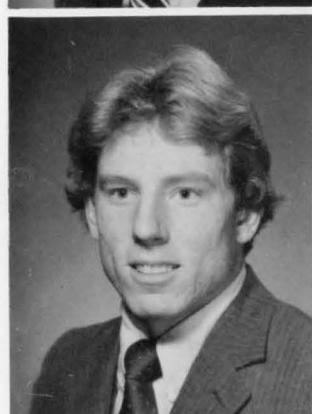
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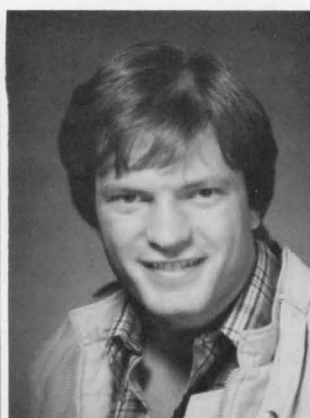
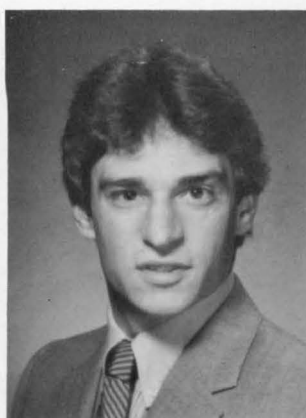


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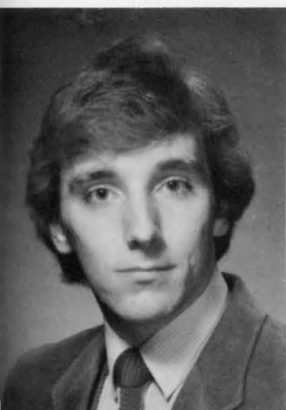




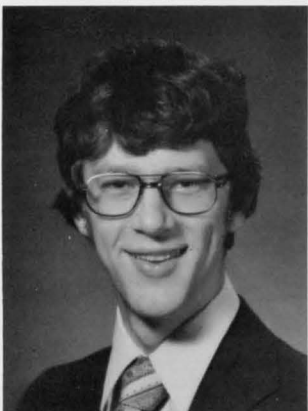
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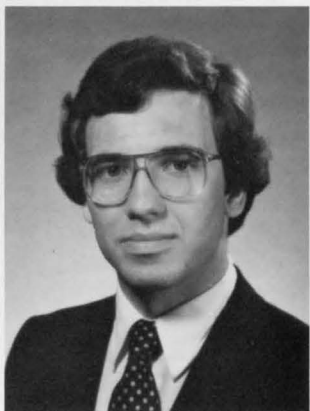
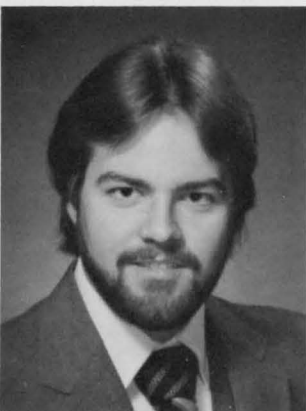
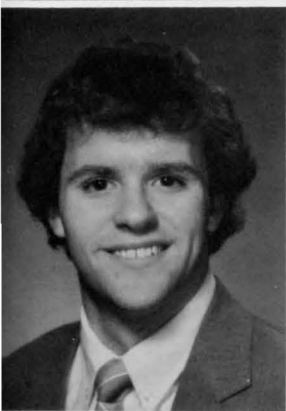
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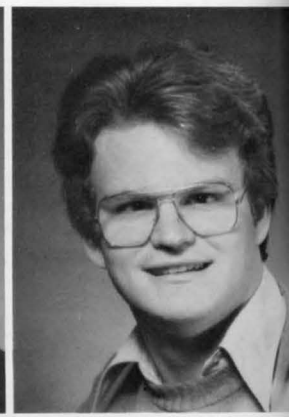
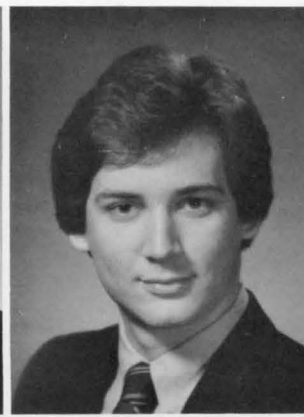
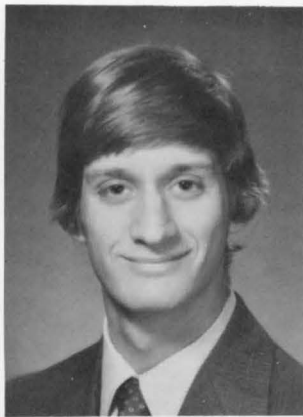


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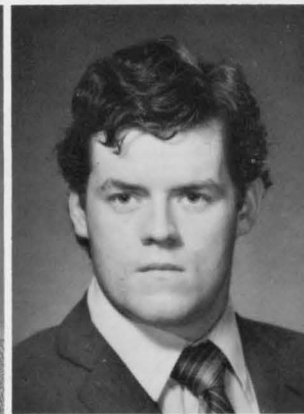
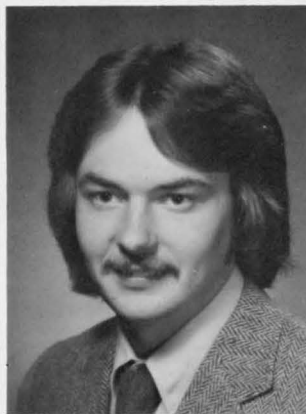


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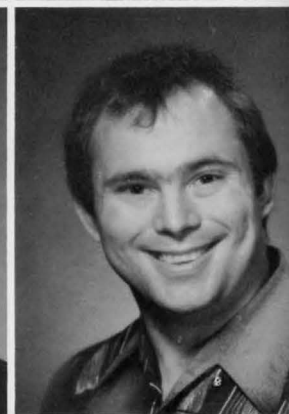
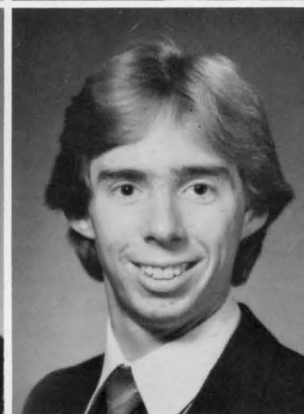
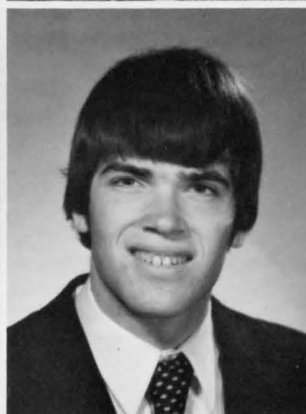
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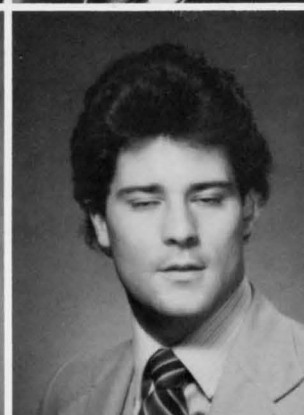
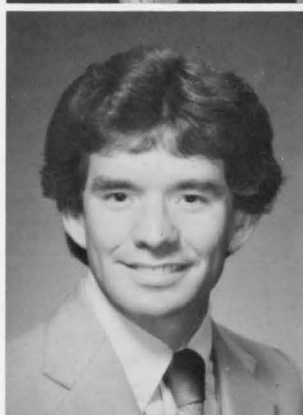
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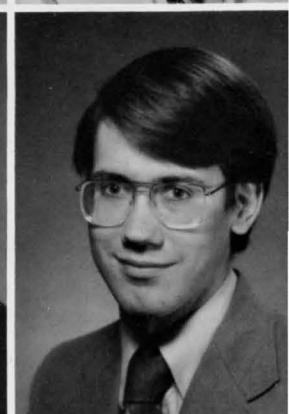
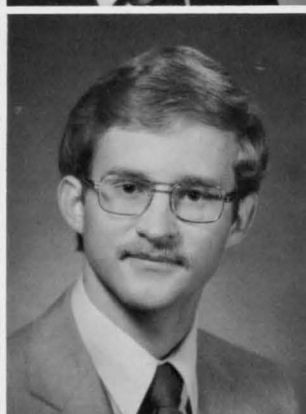
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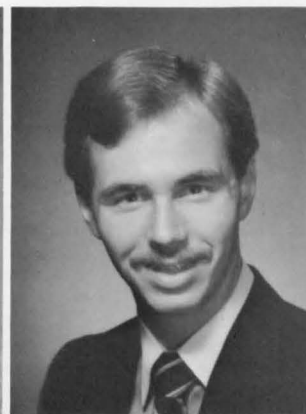
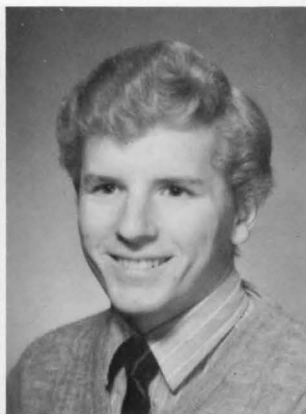
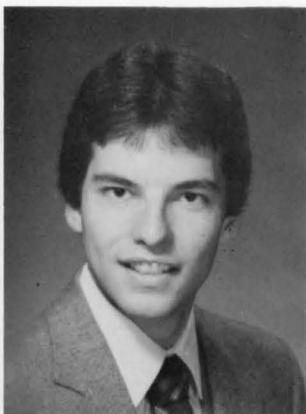
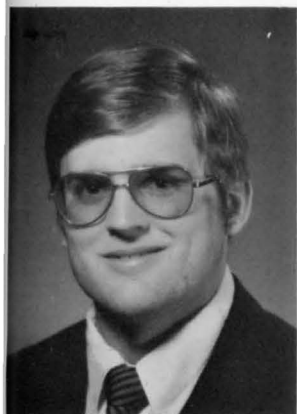
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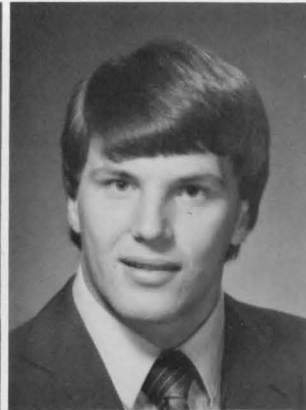
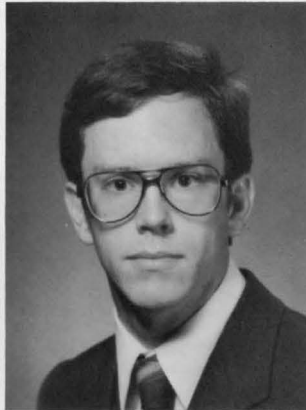
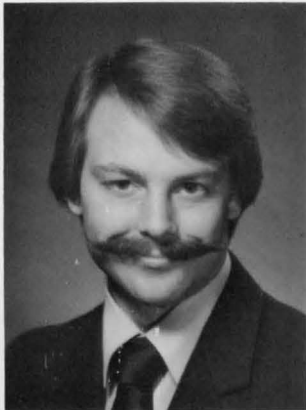
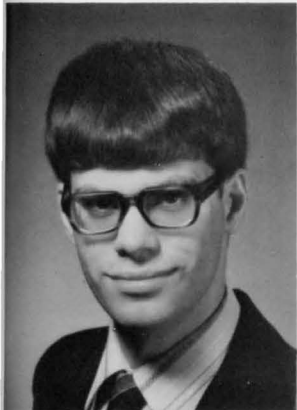
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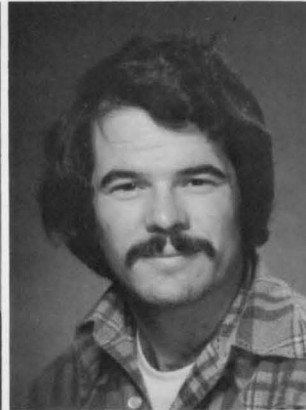
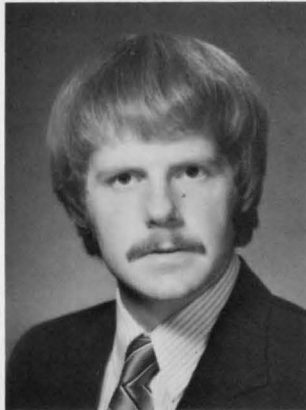
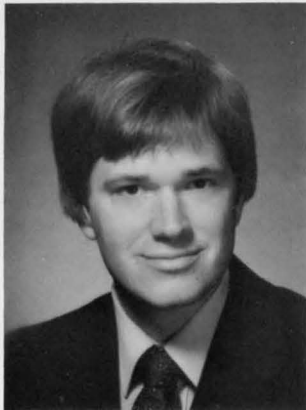
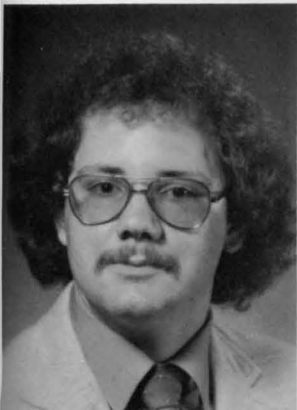




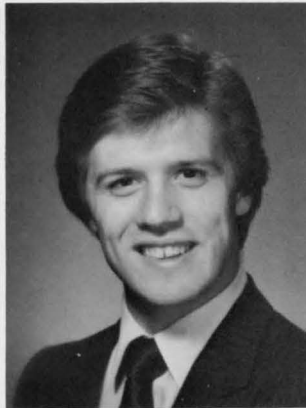
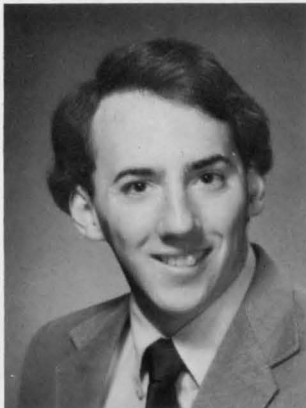
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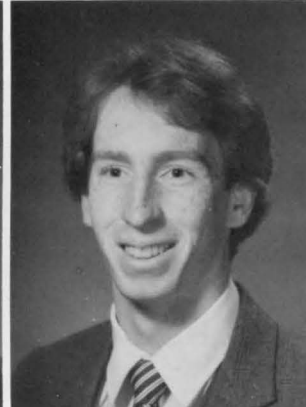
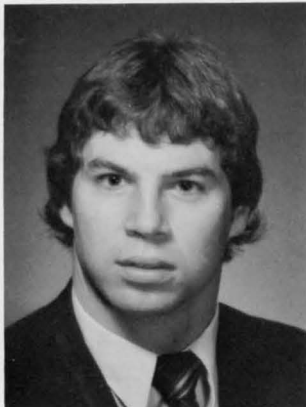
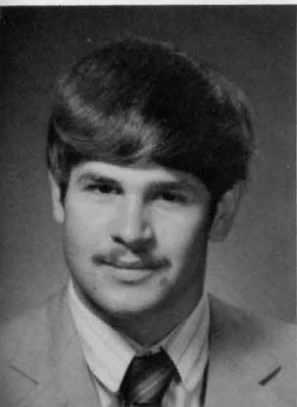
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David J. Hill



James A. Hill  
Geoffrey Hobar  
Dana W. Hofheins  
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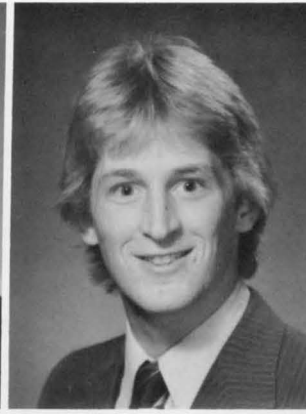
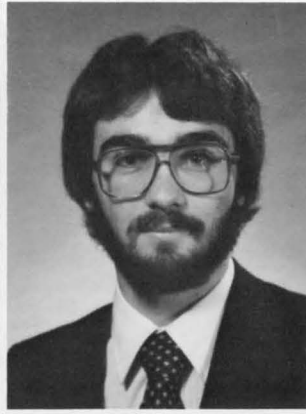


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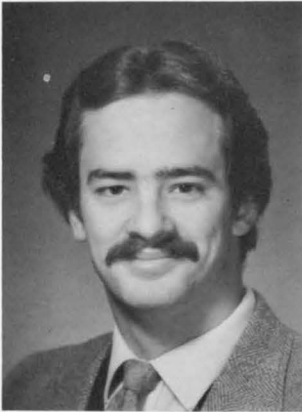


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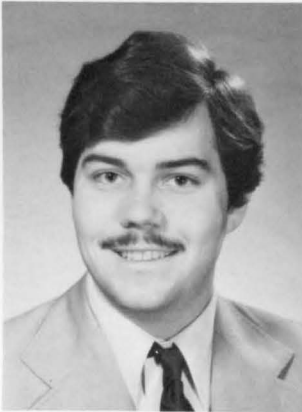
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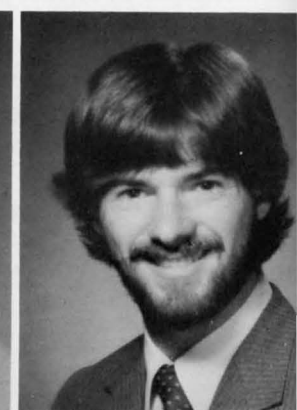
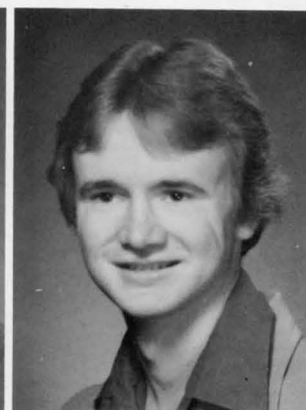
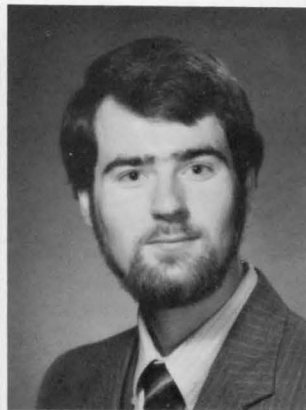
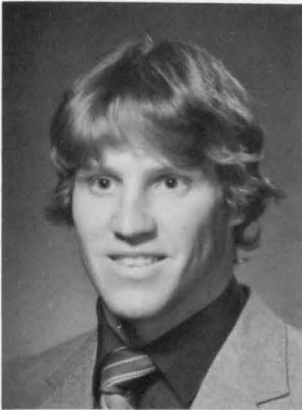
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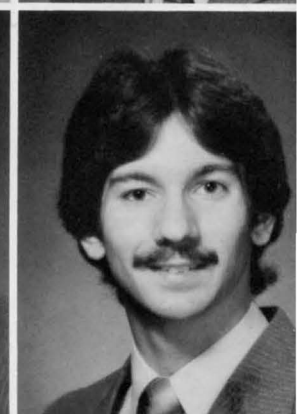
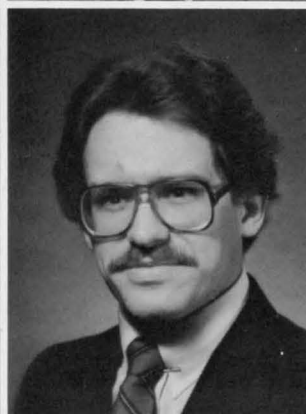
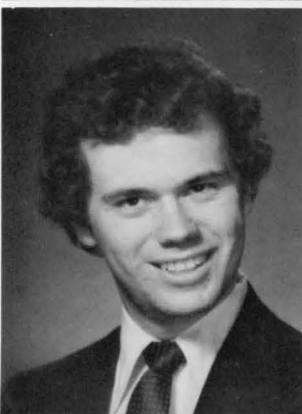
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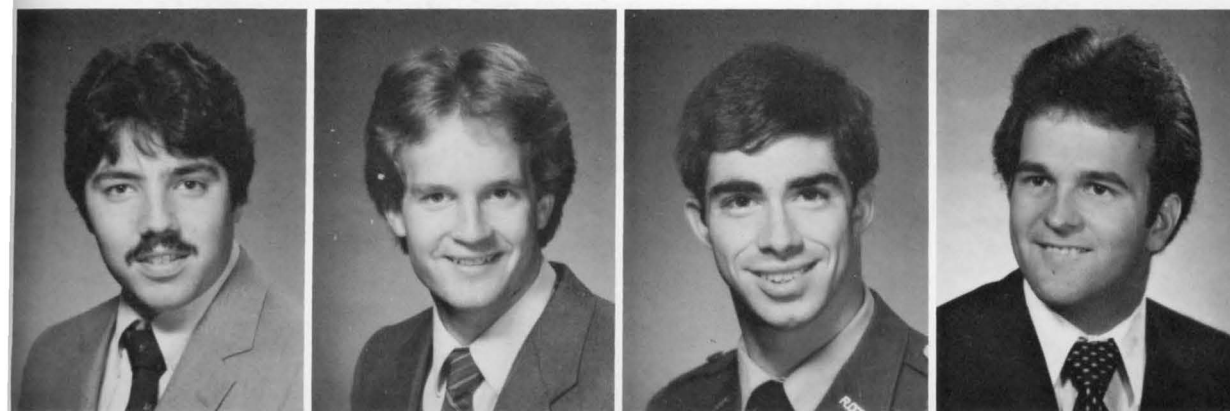


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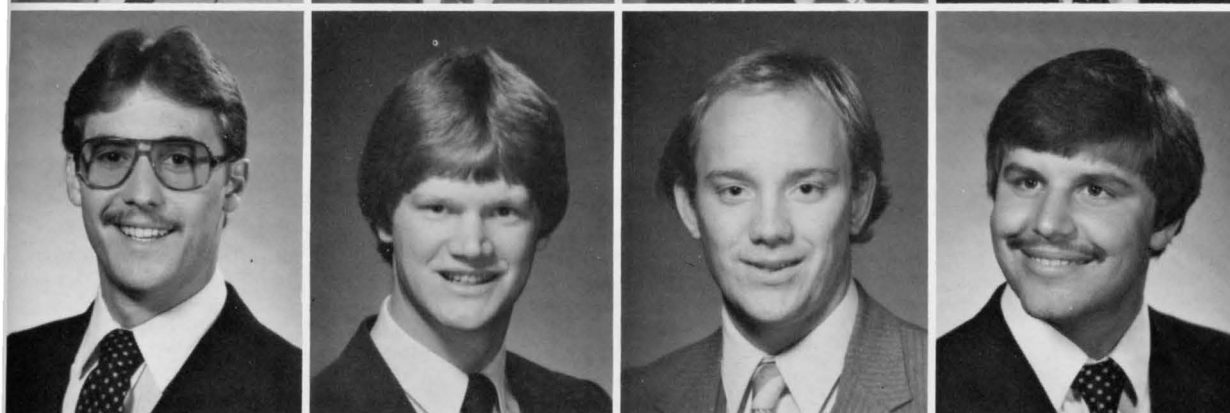


Edward J. Klages  
Christopher A. Kniola  
Thomas A. Kouris  
Randy L. Kraegel





Robert E. Kraft  
James E. Krieg  
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Thomas S. Kunstek, Jr.  
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Terrance D. LaGrange  
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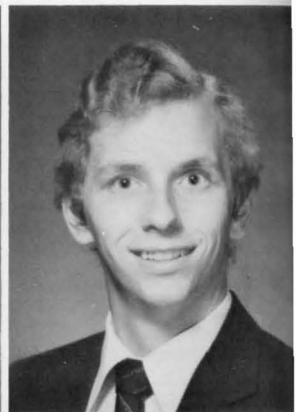


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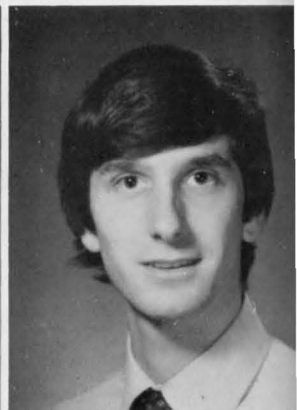
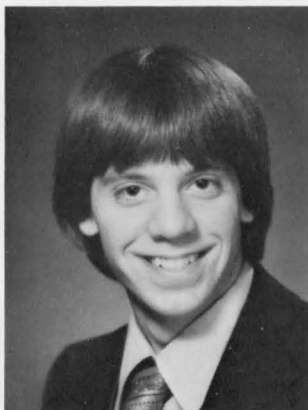




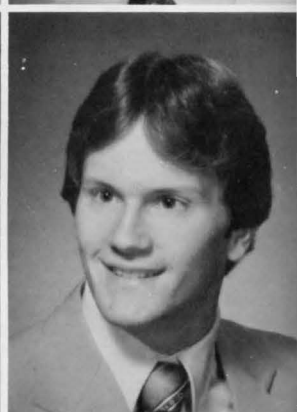
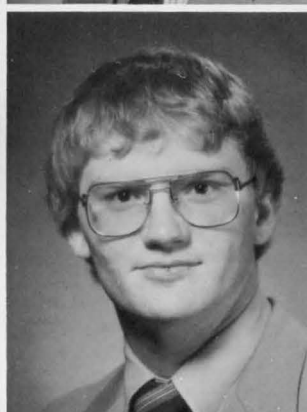
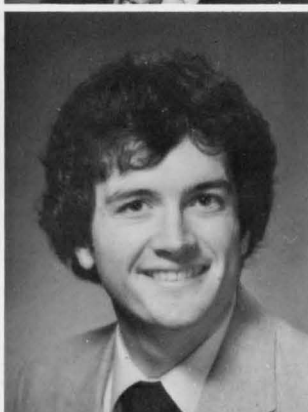
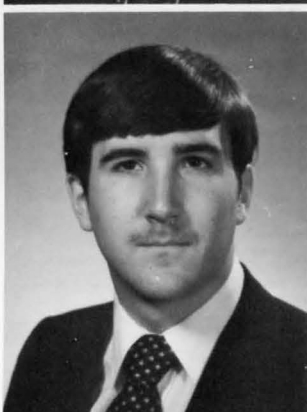
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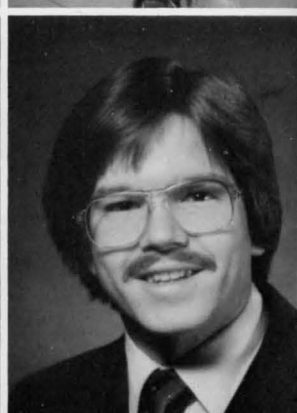
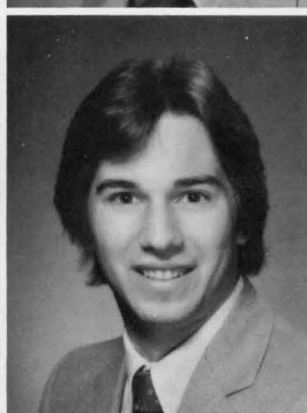
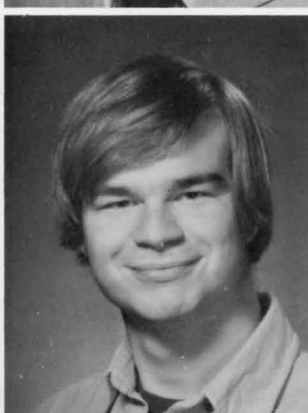
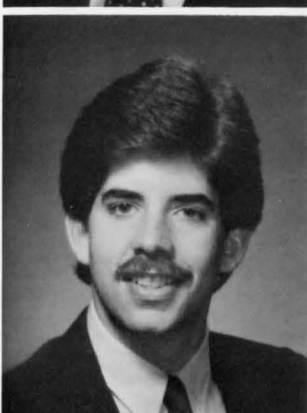
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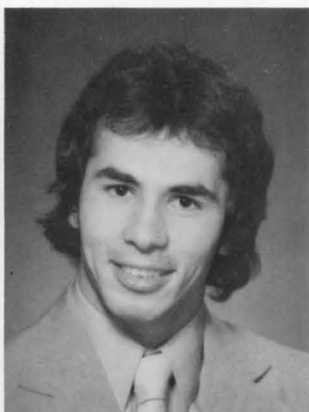


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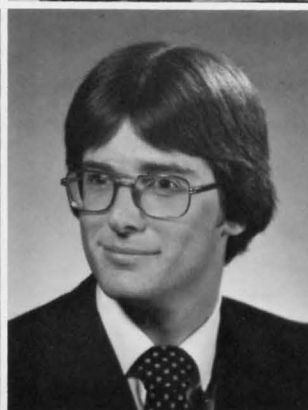
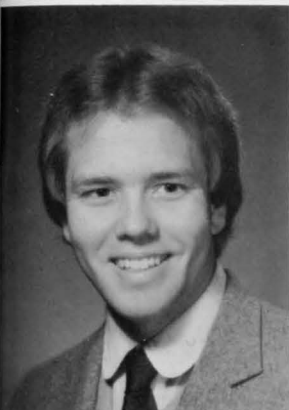


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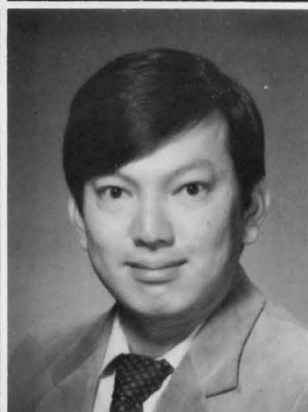
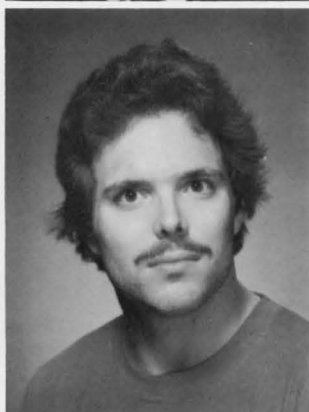




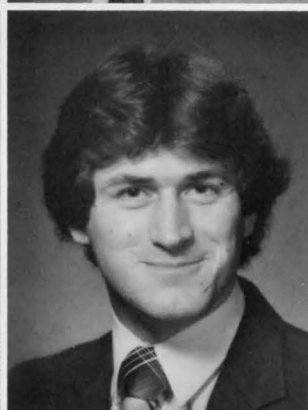
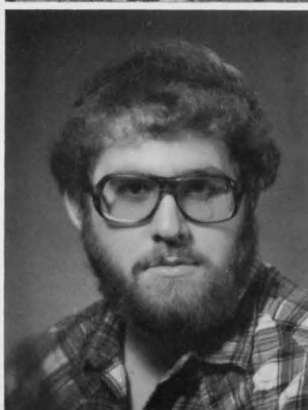
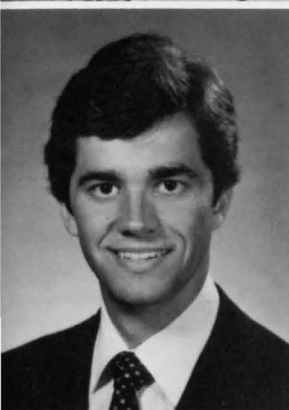
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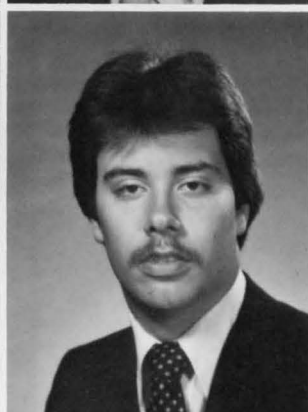
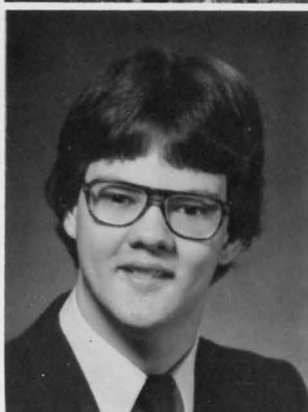
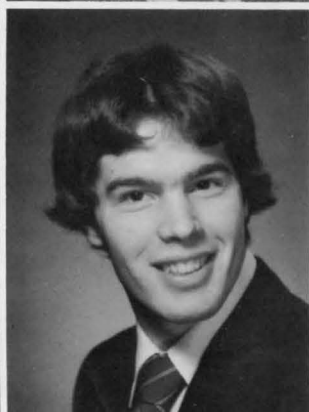
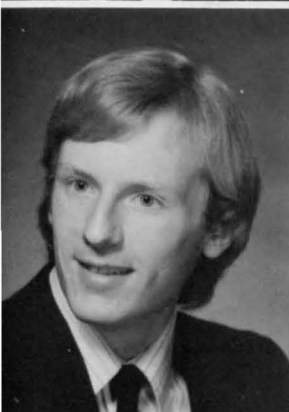
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Dwayne E. Owens  
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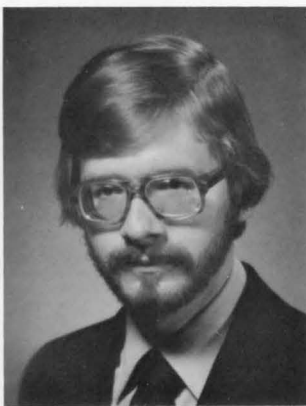
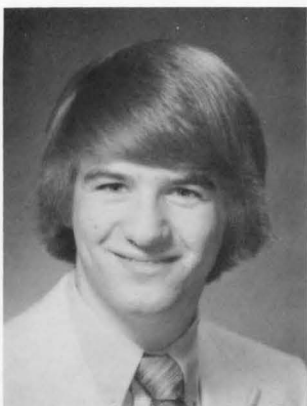


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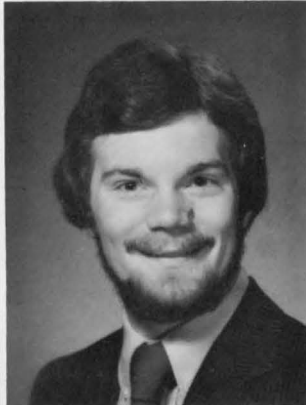


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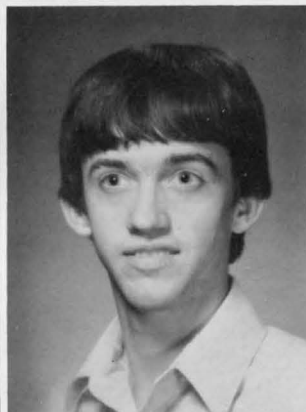
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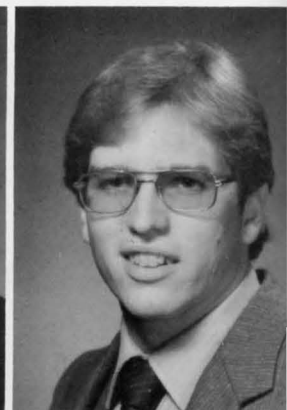
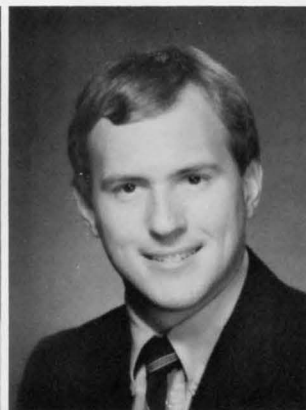
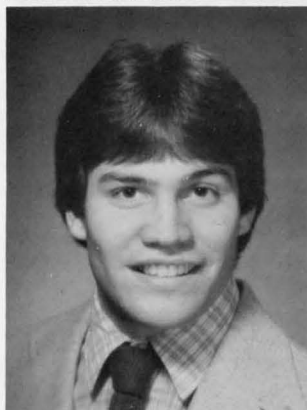
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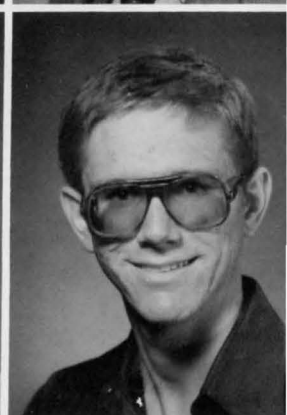
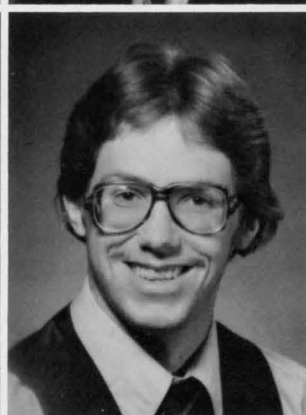
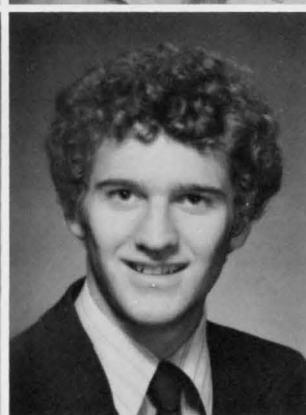
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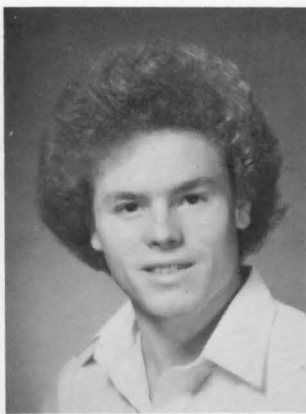
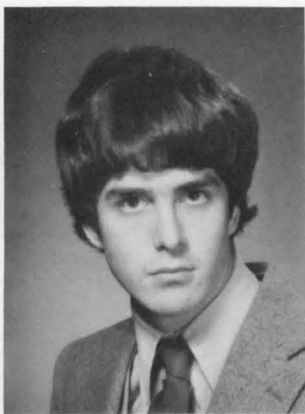
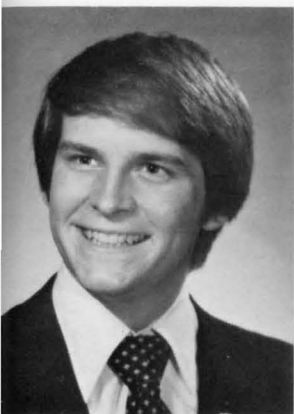
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Blaine H. Salyer



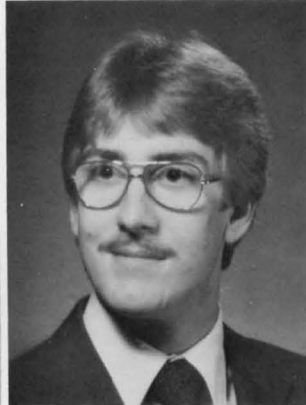
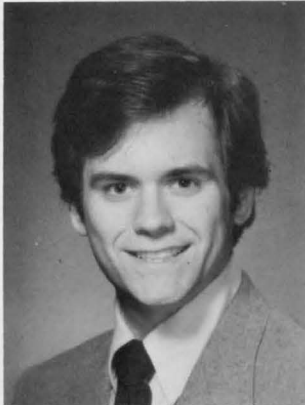
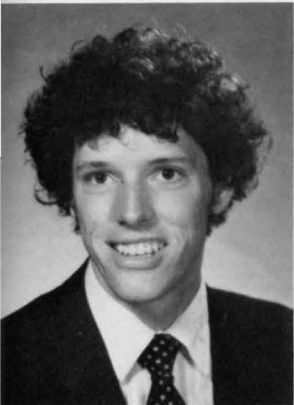
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Robert A. Schmidlin  
Peter A. Schoenhoff



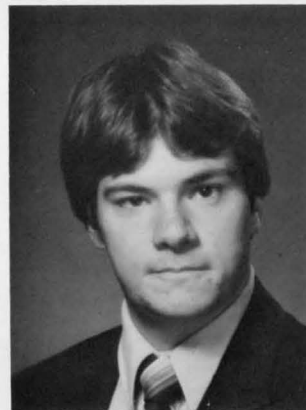




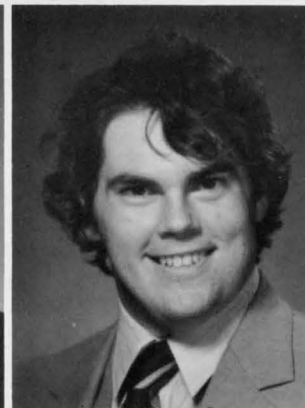
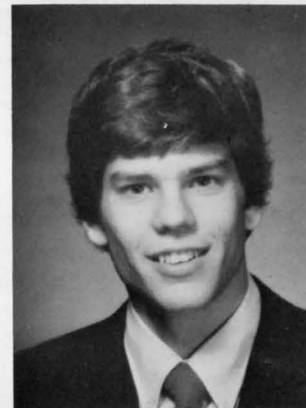
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Kirk E. Shafer  
Scott Shaw



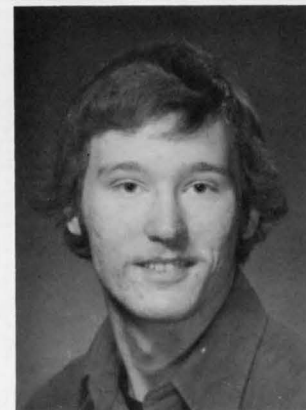
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Timothy D. Sheridan  
Steven S. Shuman



John A. Singleton  
David A. Slavin

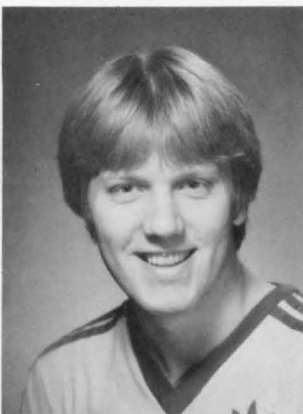


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John Dell Smith

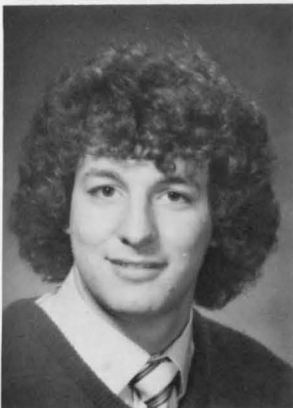


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Peter J. Soller

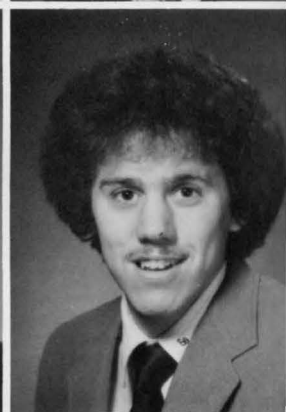
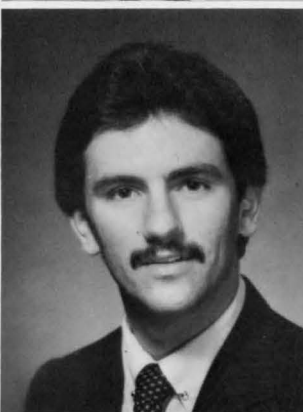
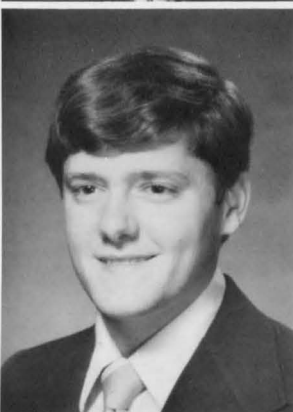
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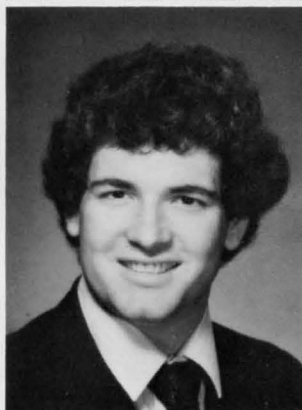
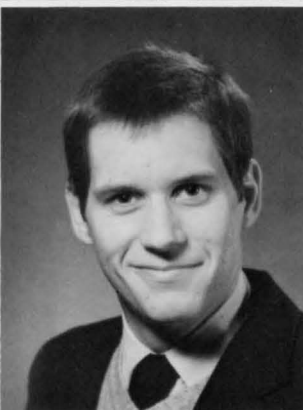
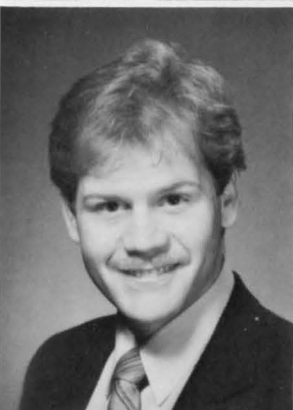
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Robert E. Stratton  
Thomas J. Sutliff



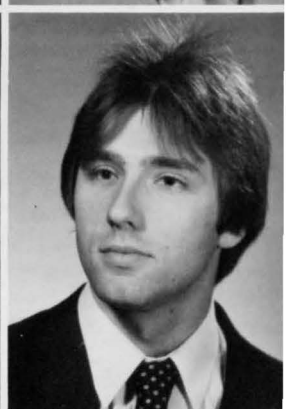
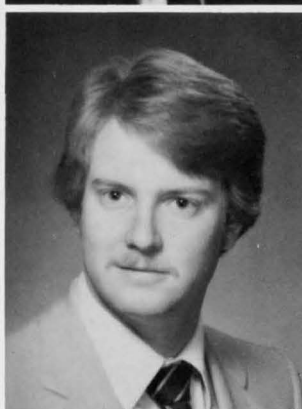
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Gregory C. Swinehart  
Jackie E. Taylor  
Brad Thompson

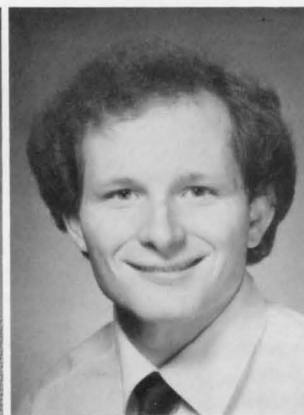
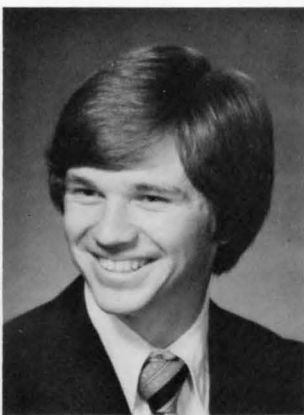
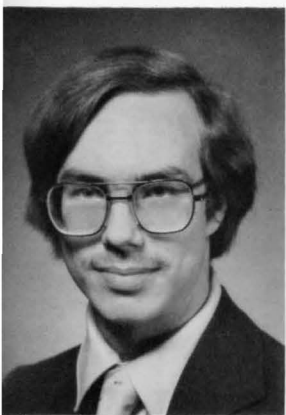


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Jeffrey A. Trang  
Kevin R. Turpin  
Troy K. Uahinui

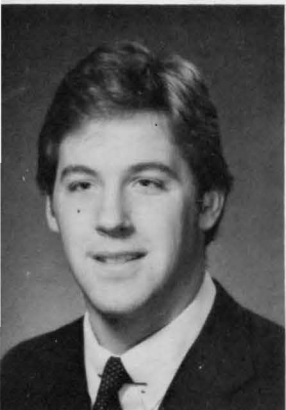


R. F. VonStralendorff  
Brian K. Wade  
Lewis W. Wadsworth  
Ralph E. Wagle

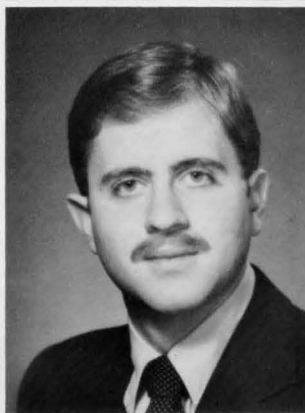
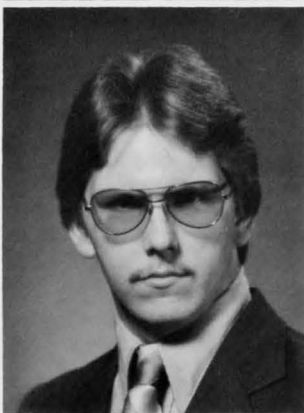




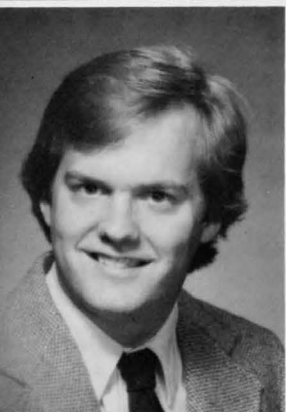
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David E. Watson  
Peter R. Watson  
Anthony B. Weber



Scott H. Welham  
Curtiss W. White  
James S. Whitehouse  
Michael D. Wilson



Mark E. Wolfe  
John P. Wooden  
Alan C. Yarcusko  
David C. Yates

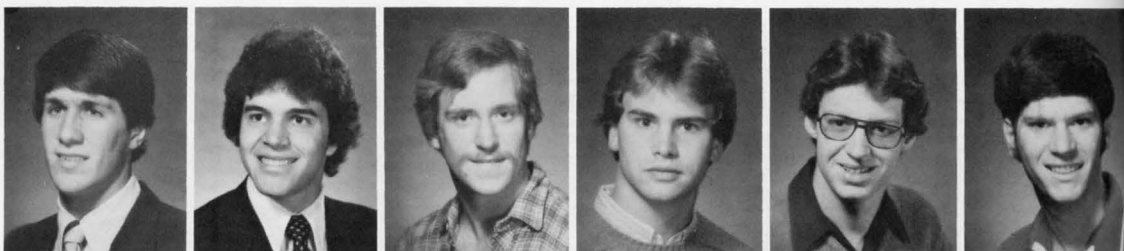


Benjamin J. Zwissler

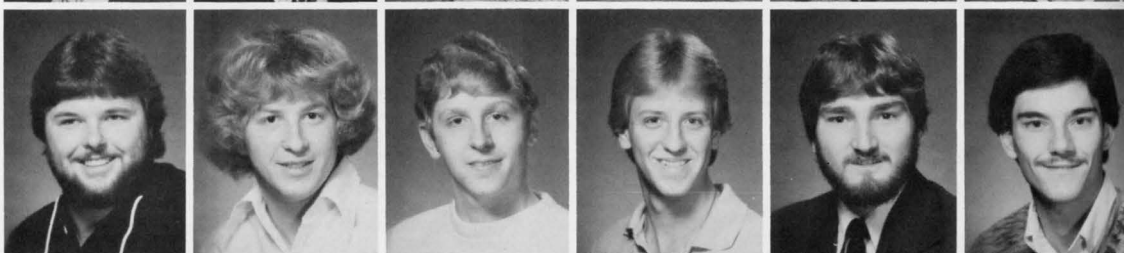


# Juniors

Donald B. Akers  
Scott E. Albertson  
Todd R. Alden  
Joseph C. Almon  
Christopher Anderson  
Ralph R. Anderson



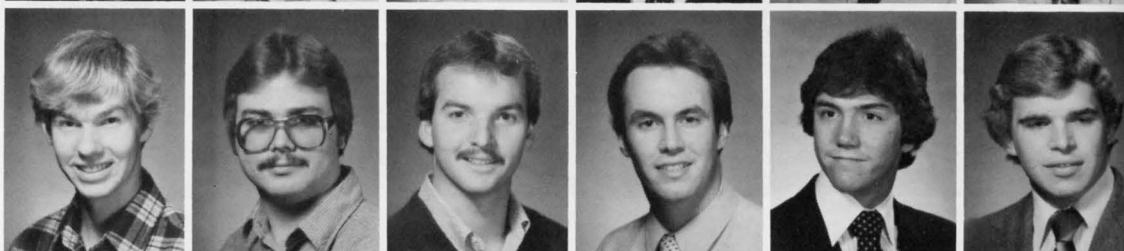
Robert W. Anderson  
Kris W. Bachmann  
Don F. Barclay  
Timothy G. Beer  
Fred J. Beerwart  
Ronald R. Bender



Roger S. Berkowitz  
John T. Bingle  
David H. Bramer  
Brad L. Brinker  
David L. Bruce  
Donald L. Burdette

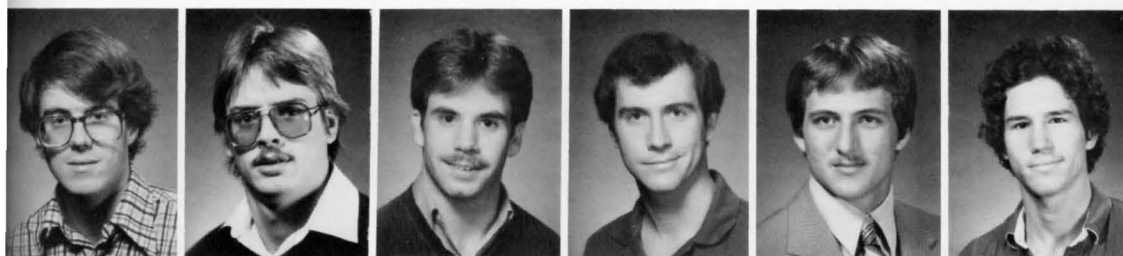


Eric S. Carlsgaard  
Clifford Cames  
David R. Carter  
David R. Case  
Edward R. Cook  
Marcelo S. Copat

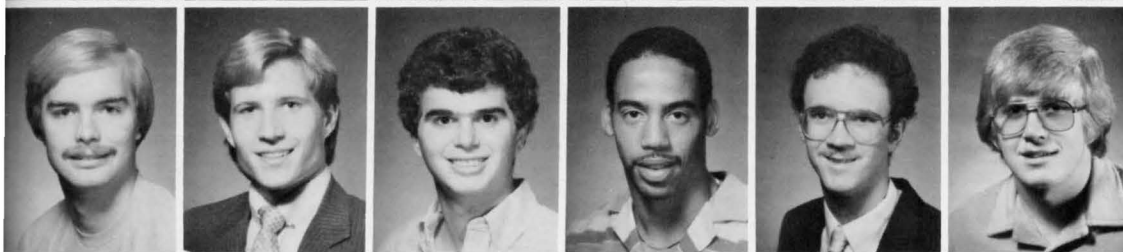


James A. Cramer  
Robert L. Crowell  
David B. Danner  
Michael P. Davison  
Matthew E. Deutch  
J. Eric Dietz





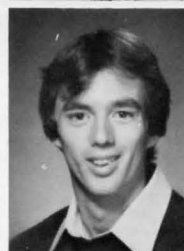
Daniel J. Dillon  
Rick A. Doss  
Brian L. Drake  
Kenneth A. Eads  
Mitchell J. Edwards  
Thomas G. Eidenschink



Bradley T. Elliott  
Kelly D. Emberton  
Cameron B. Erikson  
Robert L. Ewing  
Gregory V. Fawley  
Roland L. Fegan, Jr.



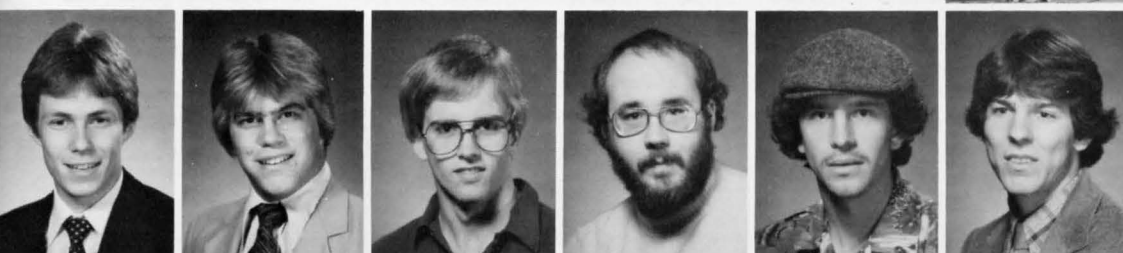
Dean C. Ferner



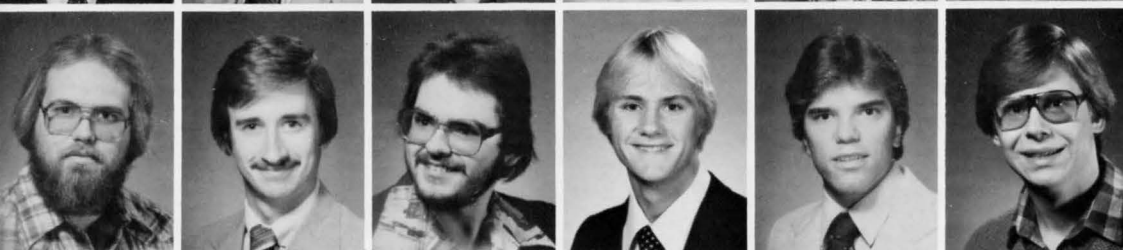
C. David Fisher



William T. Flight

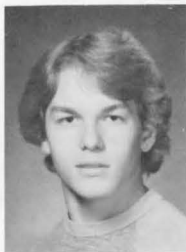


Harry B. Flotemersch  
Christopher M. Flynn  
Anthony J. Fossett  
Terrence H. Fountain  
David M. Fox  
Richard S. Fox



James R. Francisco  
Richard A. French  
Jerry Genovesi  
Gregory L. Gibson  
Robert Gollon  
James F. Griffin

Stuart H. Guinther



Frederick Haislmaier



H. Victor Hasler



Mike L. Hatfield  
Stephen R. Hazle  
Matthew J. Hennel  
Michael L. Hines  
Alan L. Hippleheuser  
Joseph J. Hollkamp



Warren J. Hoover  
Mark K. Houchins  
James C. Huller  
James L. Jacobs  
Richard J. Jacobs  
Paul A. Johnson



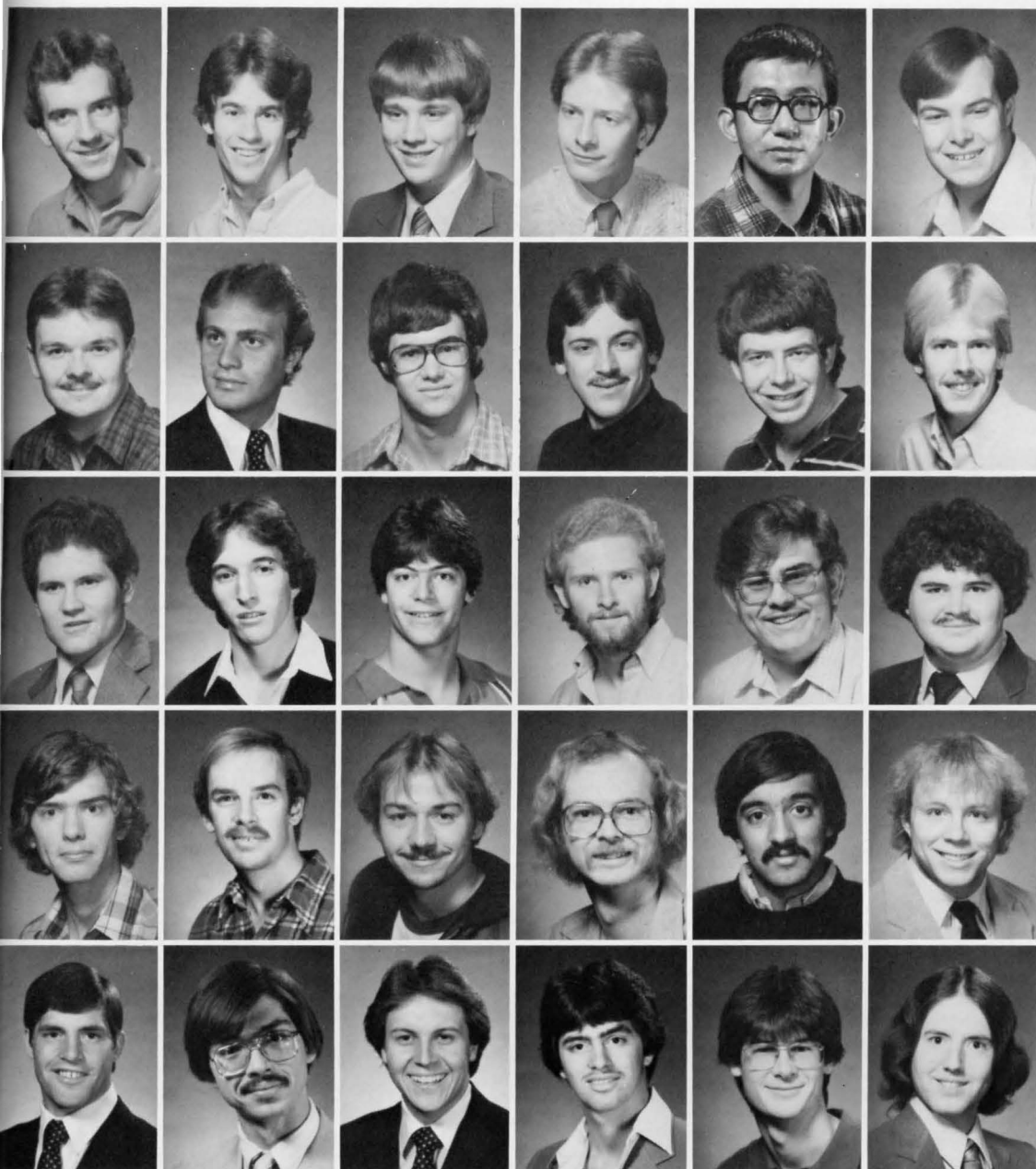
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Dennis A. Kaminski  
Keith A. Kemp  
Lyle H. Kendall  
Dan S. Kieffner  
Daniel B. Kilpatrick



Richard G. King  
William W. Klemola  
Gary E. Klimek  
Anton J. Koopman  
Jeffrey W. Kugelmann  
Todd R. Kuhse







Gregory A. Kujawa  
 Joseph S. Kunkel  
 William E. Lash  
 Mark R. Lee  
 Ming-Li Lee  
 Brian F. Lewis

Jerry S. Lowe  
 Antony J. Lozier  
 Chris A. Marsolf  
 Allen W. Martin  
 William J. Martini  
 Richard F. Massey

Bryan R. Matthews  
 Steven E. Maurer  
 Scott A. McCan  
 Guy G. McCulloch  
 Eddie G. McCullough  
 Patrick D. Meharry

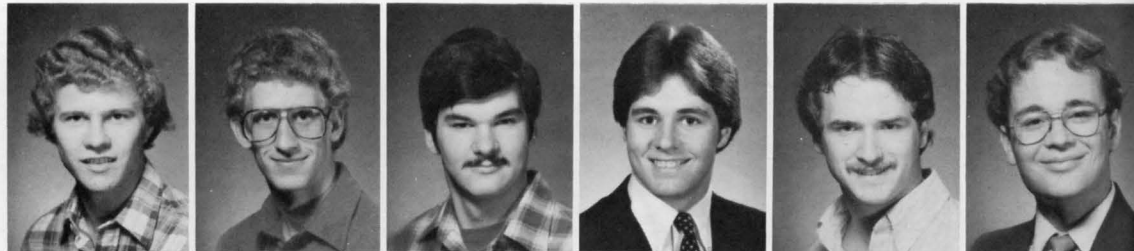
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 John F. Mitchener  
 John W. Moranski  
 Eric R. Murray  
 Kedar D. Murthy  
 Brian C. Myers

Nick A. Neargarder  
 Frank M. Nemeth  
 Bradley R. Newman  
 Charles W. Newton, IV  
 James C. Nicholson  
 Larry M. Nugent

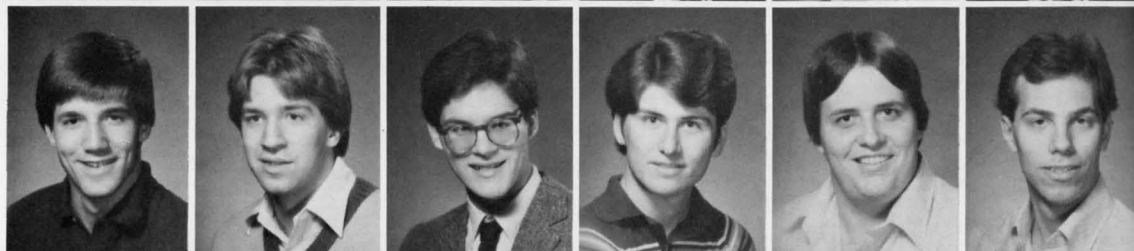




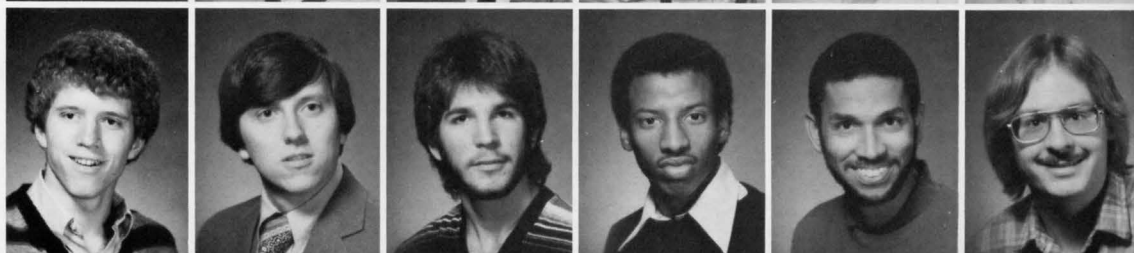
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Patrick T. O'Connor  
Edward D. Olin  
Carlton C. O'Neal  
Gary W. Parker  
David J. Patterson



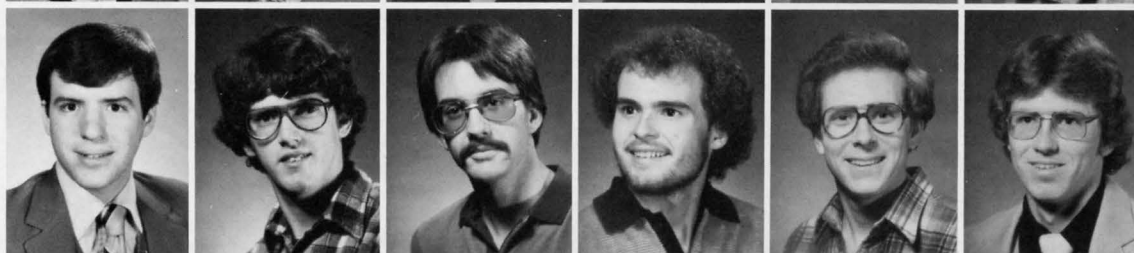
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Jerry T. Payonk  
Michael K. Perdue  
Steven D. Pettit  
Joseph A. Podolski  
Theodore N. Poulos



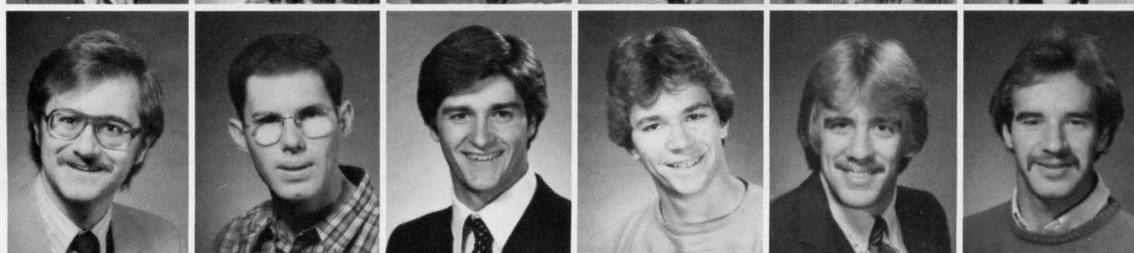
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Richard C. Pryzma  
Steven M. Renner  
Damon L. Richards  
Jonathan Richardson  
David J. Rieger

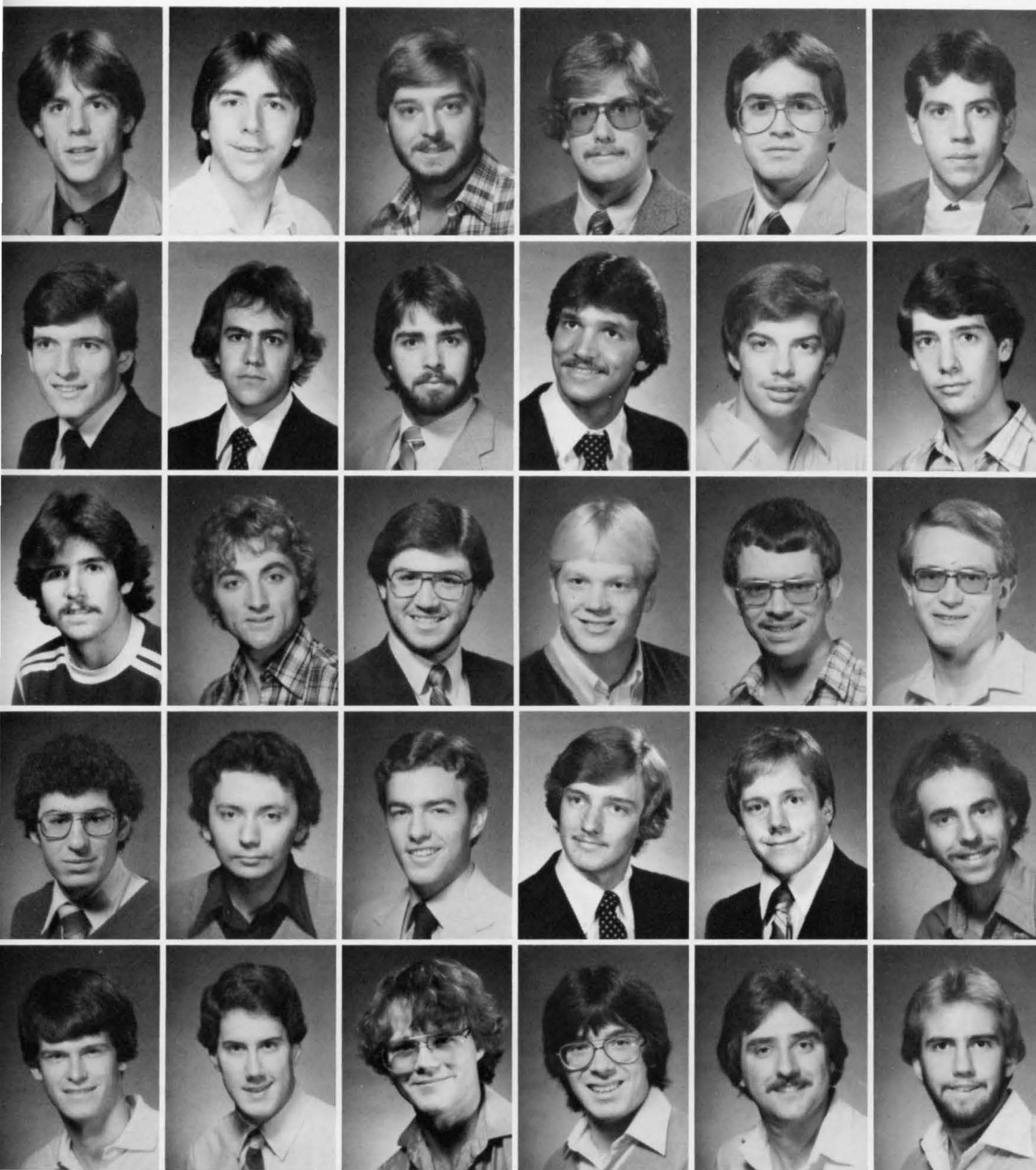


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Andrew L. Ringwald  
Stephen N. Rugh  
Jeffrey W. Ryle  
William L. Sales  
Mark A. Saltgaver



Edward V. Sammond  
Paul D. Schaub  
Rodney G. Schrader  
John G. Searle  
Bradley Secrest  
Steven J. Shannon





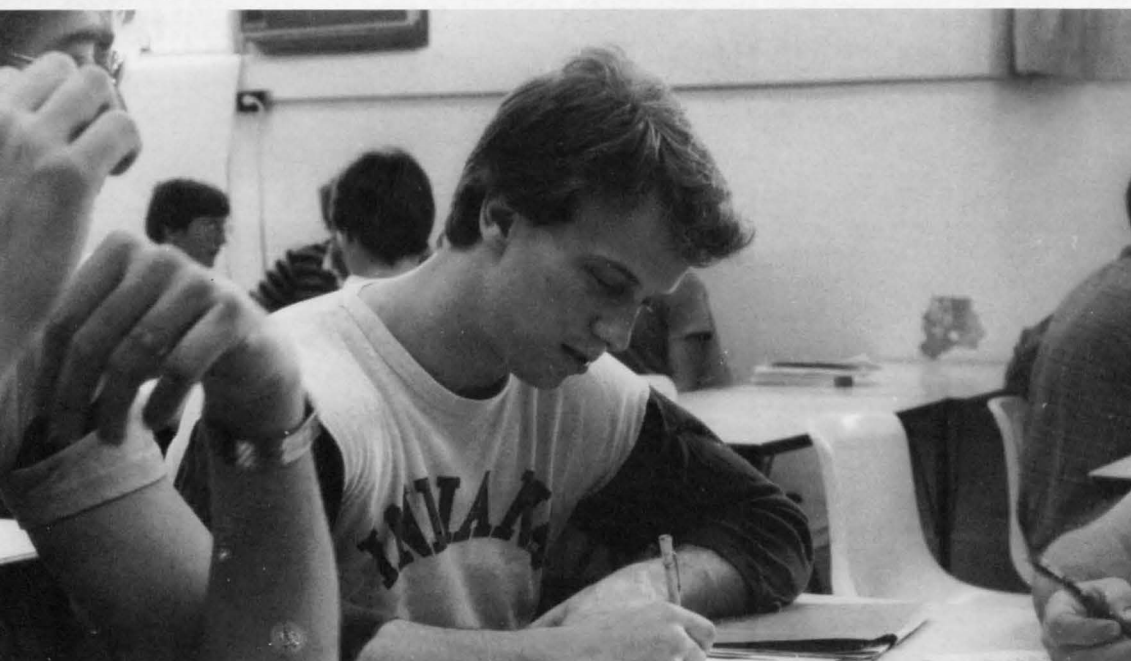
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Robert E. Staley  
Dean P. Stanley  
David L. Steward  
Tim J. Strange III

Mark L. Struble  
James B. Sullivan  
Gerard J. Tarantino  
Markham C. Tate  
Jeffery L. Taylor  
Hugh J. Thornburg

William L. Thrasher  
Thomas L. Tillery  
Jay A. Turpen  
Scott A. Tying  
Estel L. Vandergriff  
Meredith L. Vannauker

Brett Walls  
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George R. West  
James D. White  
Martin A. White

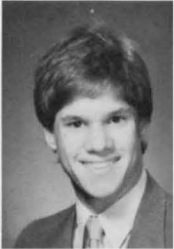
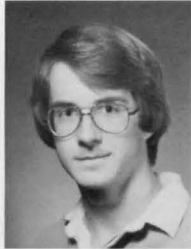
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Brian L. Wilson  
Jeffrey P. Withem  
David Workman  
Alan R. Young



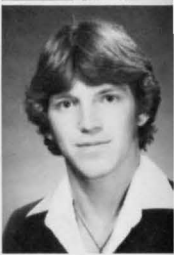


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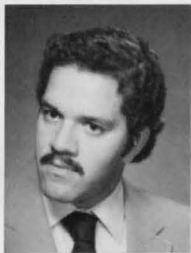
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Duwain K. Ake  
Garth D. Ash  
William J. Bandy III  
Laszlo C. Bardos



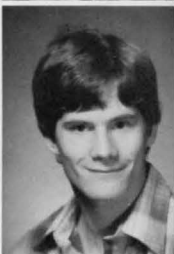
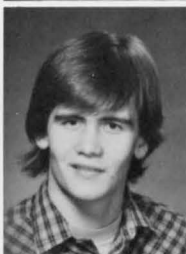
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George P. Bauer III  
Eddie L. Beal  
Miles S. Bennett  
Kevin M. Betts



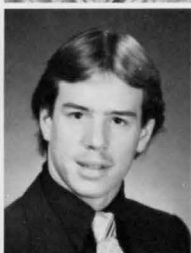
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Luis Bogran  
Peter J. Bolakowski



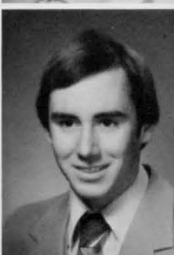
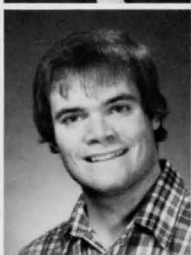
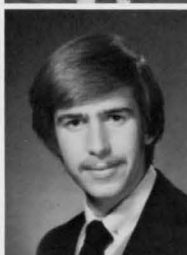
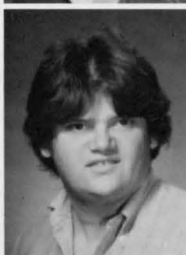
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Mark J. Bormann  
Glenn D. Bridwell  
Neil J. Brown  
Michael J. Bryan  
Michael Buccieri



Jeffrey L. Buck  
Daniel P. Burch  
Robert J. Burch  
Tony J. Burnett  
Thomas M. Cain  
Atilio D. Carbo

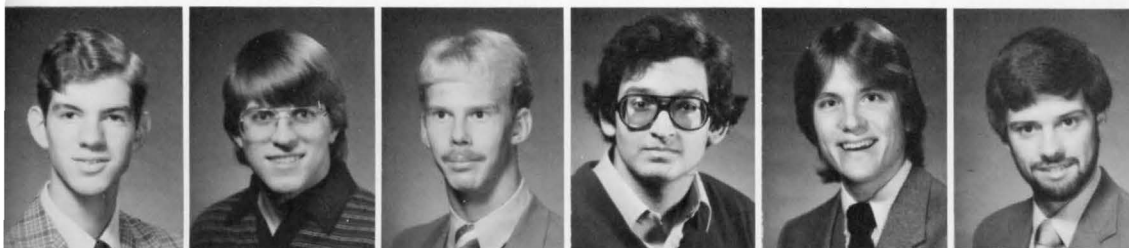


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Nathan T. Case  
Gregory A. Chapman  
Donald G. Childress  
James B. Clark  
Jim M. Clerkin

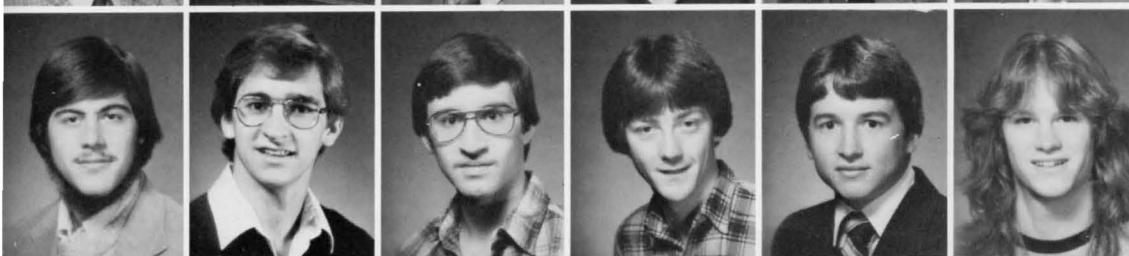


Jerry W. Cockrell  
Keith W. Coleman  
Frederick H. Cook  
Loren T. Cook  
Robert W. Cox  
David G. Cramer





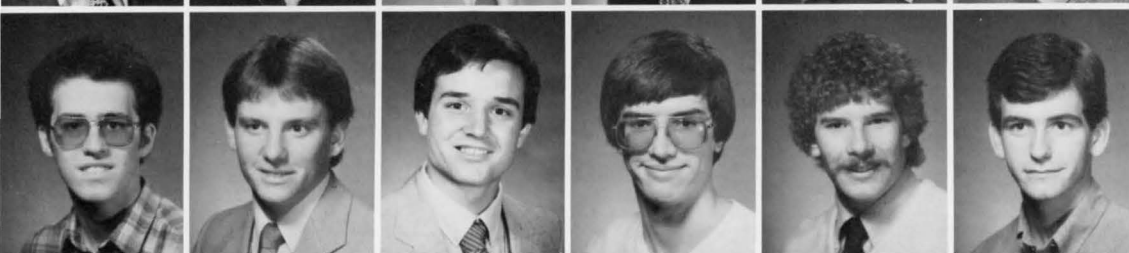
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Greg D. Cullen  
Michael K. Daniel  
David B. Davenport  
Jon T. Davis  
Brian L. Dawson



Niel DeAlteris  
Richard Deitch II  
David A. Demeter  
Roger L. Dickison  
Joseph M. Didelot  
Sam Dlugach



Kevin J. Donovan  
Leslie P. Duellman  
John D. Dufek  
Joseph K. Edwards  
Eric R. Ellis  
Guy J. Etheridge



Timothy L. Eubank  
Jonathan M. Evans  
Kyle Farmer  
Lawrence T. Farmer  
Robert G. Fessenden  
Thomas J. Freeman



Dave E. Freese  
Bruce W. Frytz  
Stephen L. Fulwider  
Ronald H. Garber  
Mark A. Gebert  
Drew L. Gehman



Baron G. Gemmer  
Jeffrey S. Gilbert  
Gregory D. Gorski

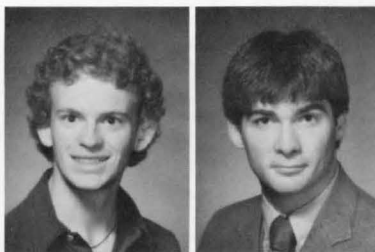


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Lee G. Gray  
Martin A. Green



Jeffrey H. Greer  
James P. Grimshaw  
Harold D. Hamilton

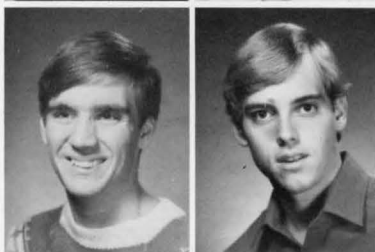
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Mathew A. Hardman



Bryan J. Harmon  
Michael A. Harwood



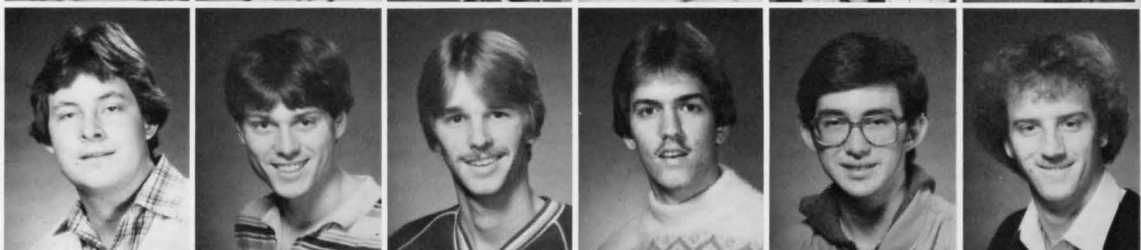
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Keith W. Heflin



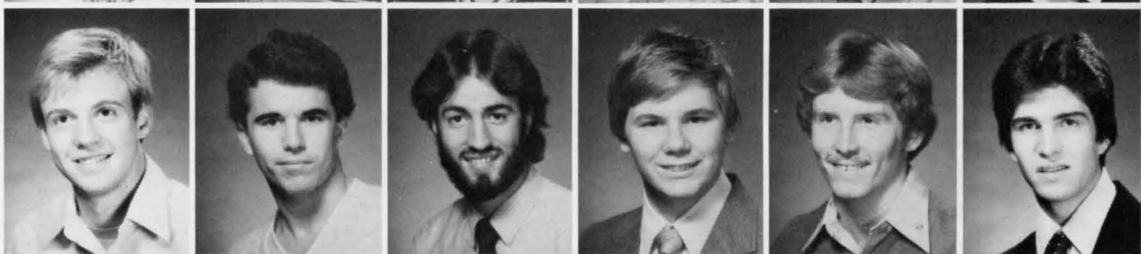
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Brian M. Herr  
Aaron L. Hoffmeyer  
Brent D. Honeycutt  
Robert T. Hopkins  
Lars Ho-Tseung



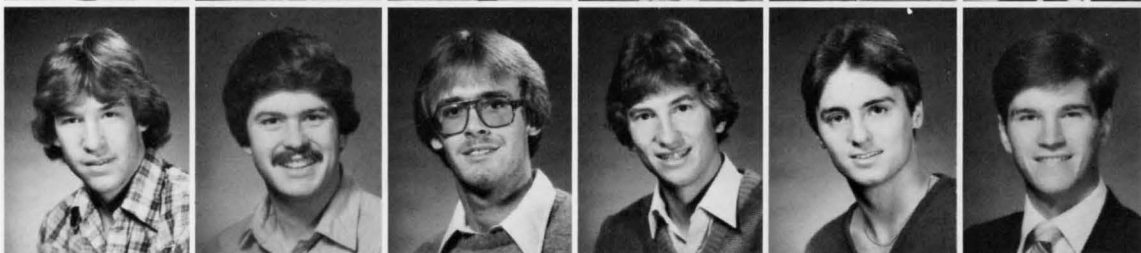
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Chris A. Huber  
Gregory G. Ilch  
David C. Irwin  
Brian K. Ivey  
Douglas L. Jackson



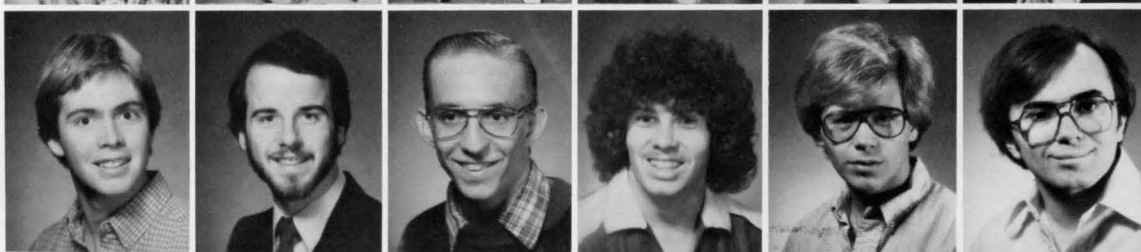
Robert G. Jacoby  
Robert S. Jenkins  
Matthew X. Jermusyk  
Jeffrey R. Johann  
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Kurt R. Johnson



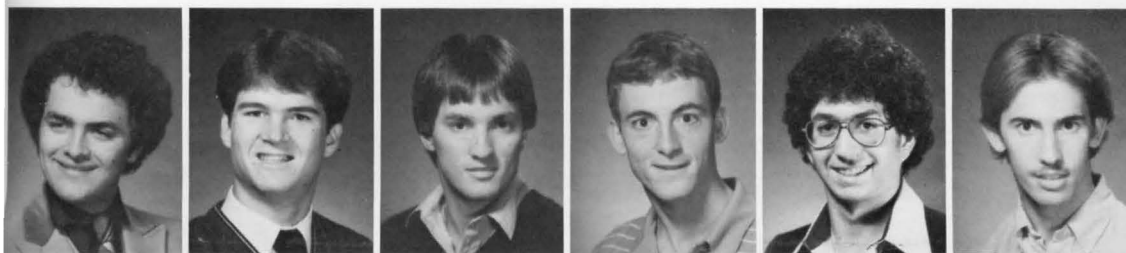
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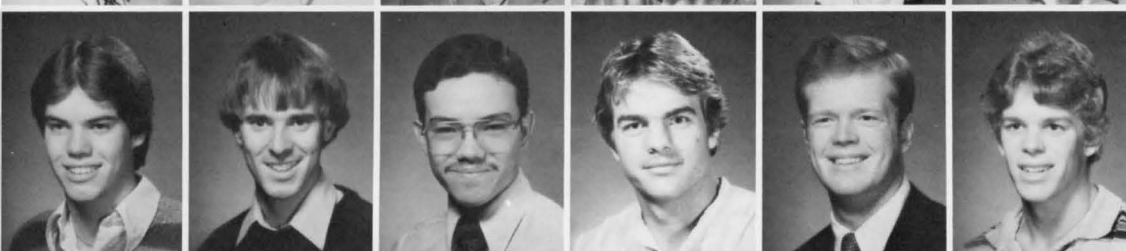
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Norman A. Lesch  
Douglas A. Lewis  
Franz A. Lieder  
Kerry J. Lighty  
Jan M. Loisch  
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Robert Lowe II  
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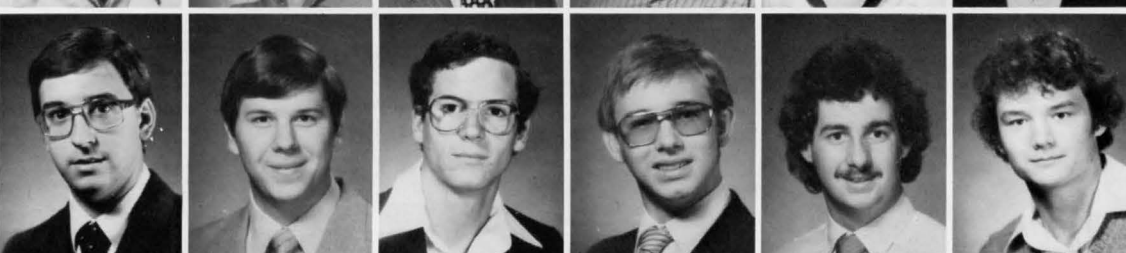
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Philip J. Moore  
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Scott E. Oblander  
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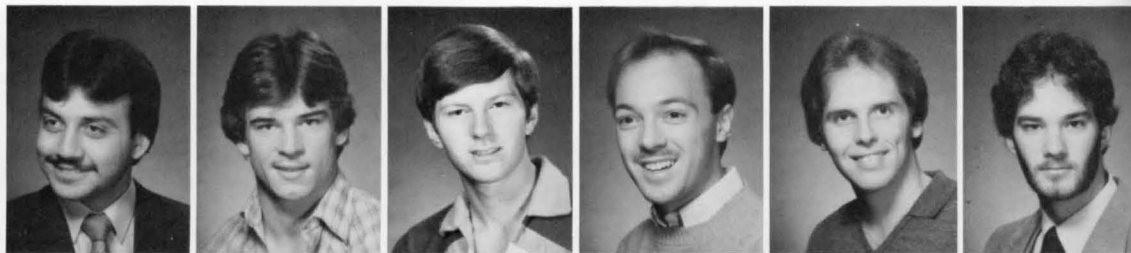


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James M. Peck  
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John E. Perkins  
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David Phelps  
Gary L. Pohl  
Brian W. Porterfield  
Brad A. Prichard

Tariq Rashdi  
Joseph F. Rauch  
Arthur L. Rawlings  
John H. Rohlfing  
Laurence K. Romine  
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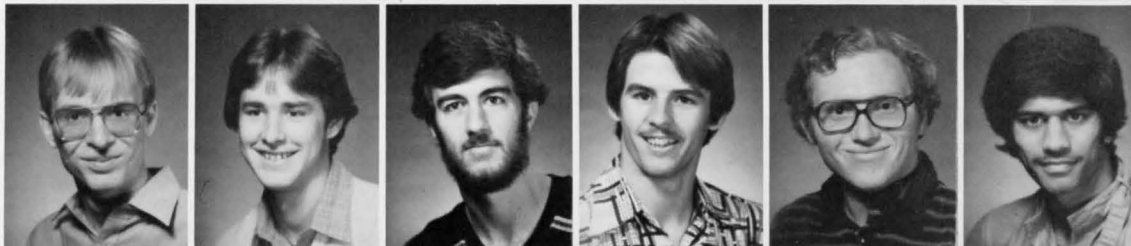
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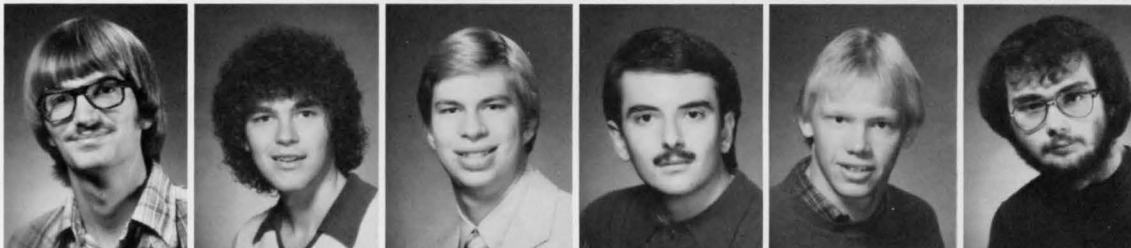
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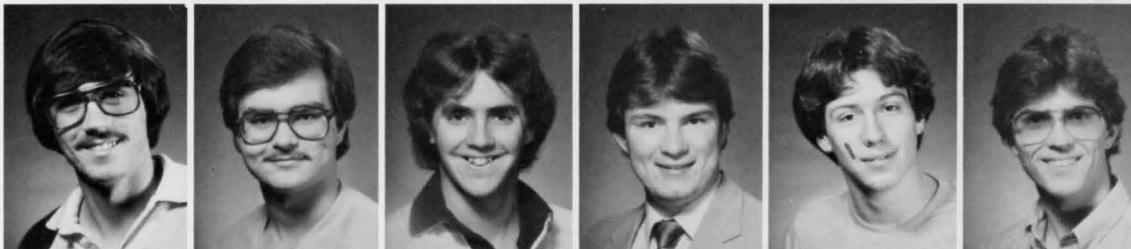
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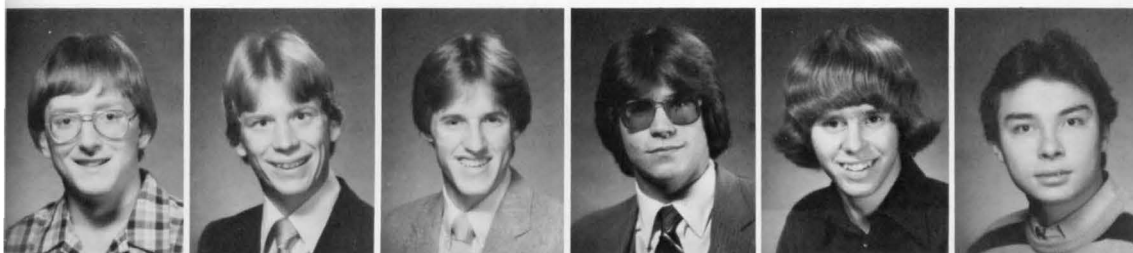


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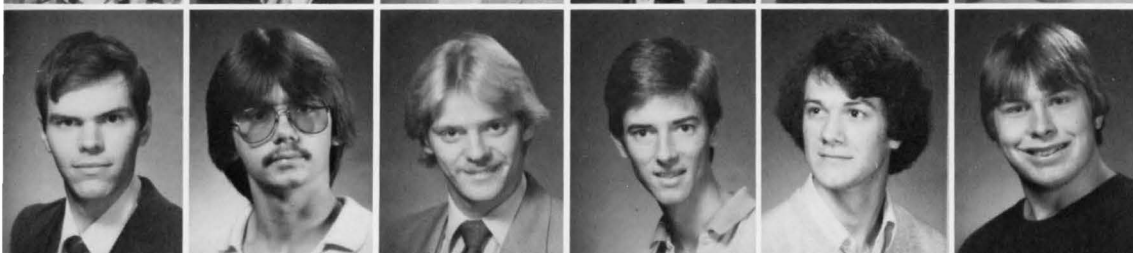


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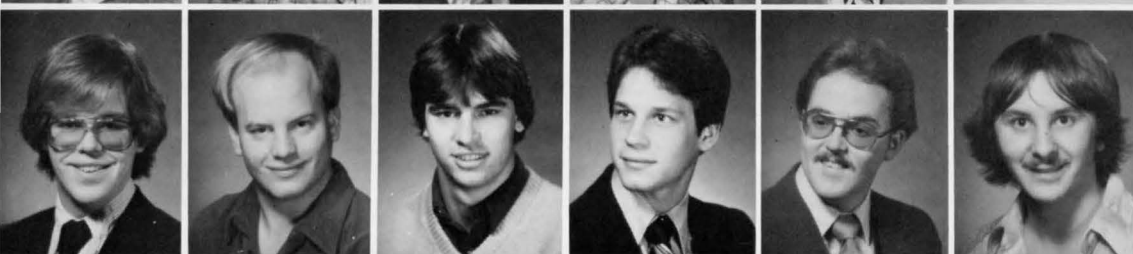
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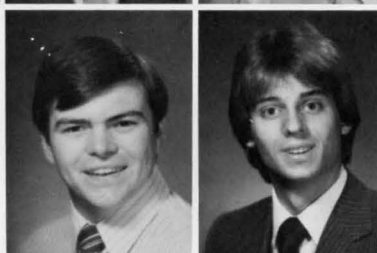
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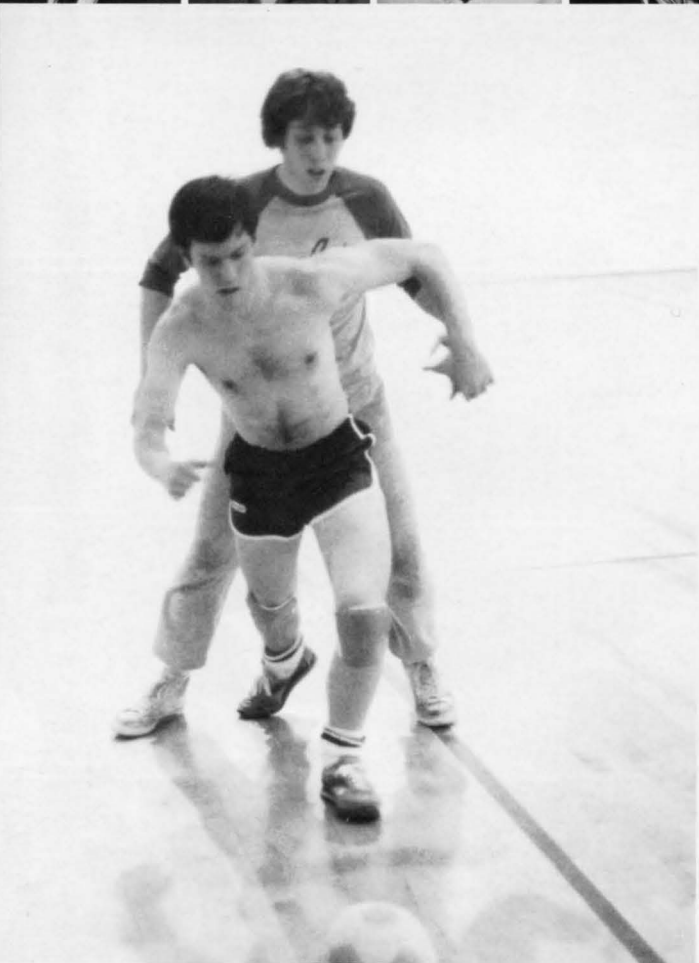
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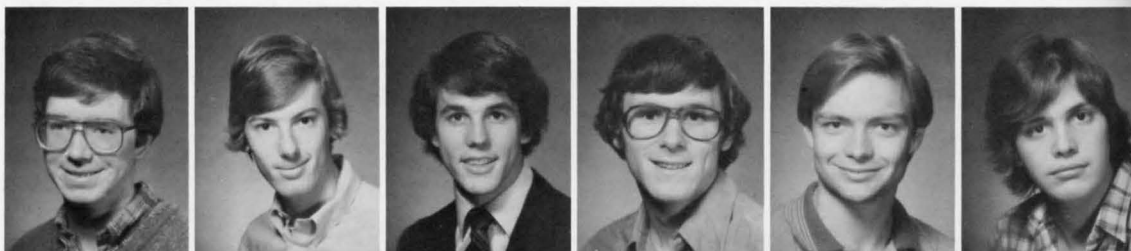
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 Jeffrey D. Zieg





# Freshmen

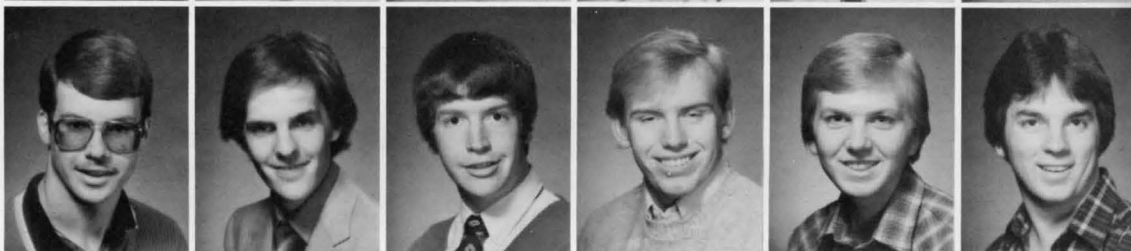
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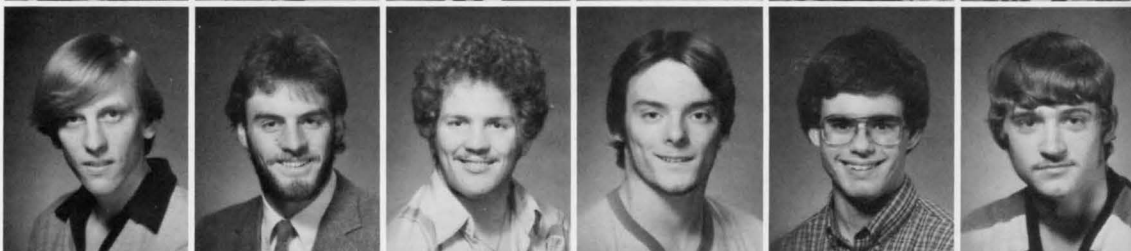
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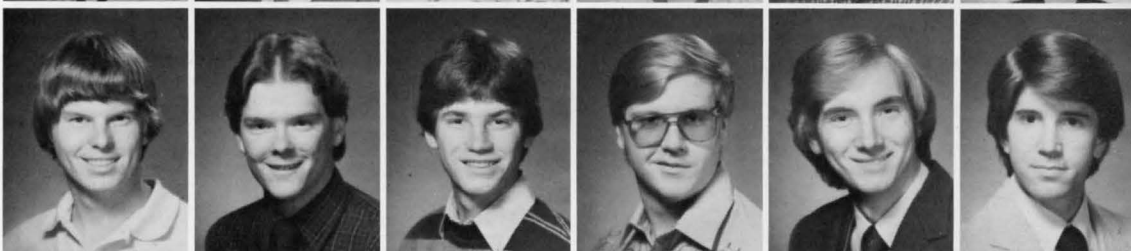
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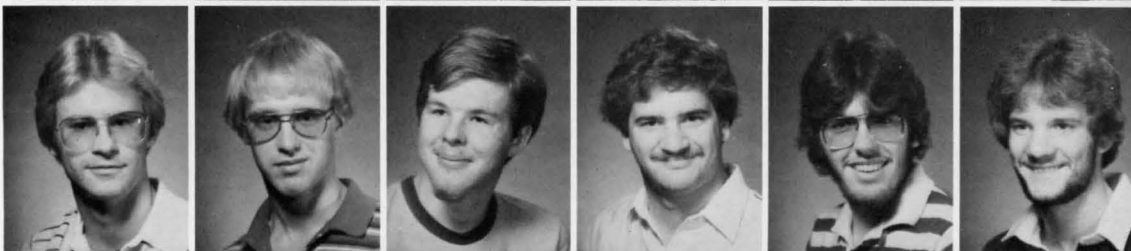
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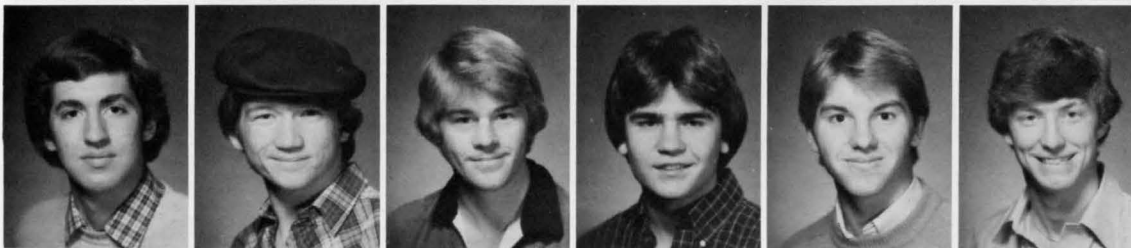
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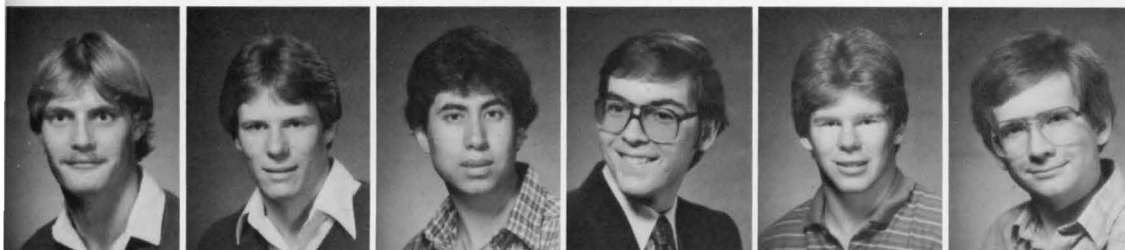


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Eric S. Christenson  
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Craig W. Coder  
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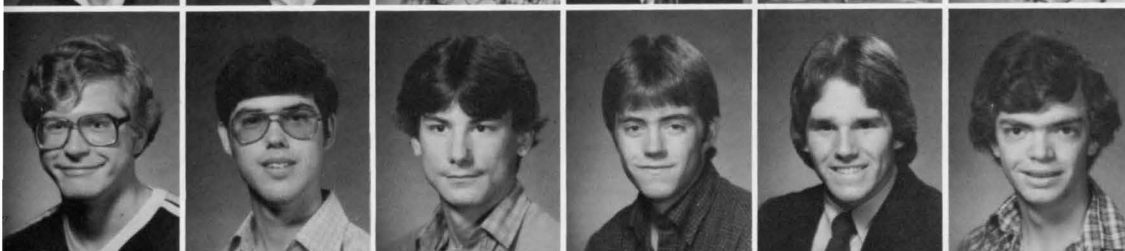


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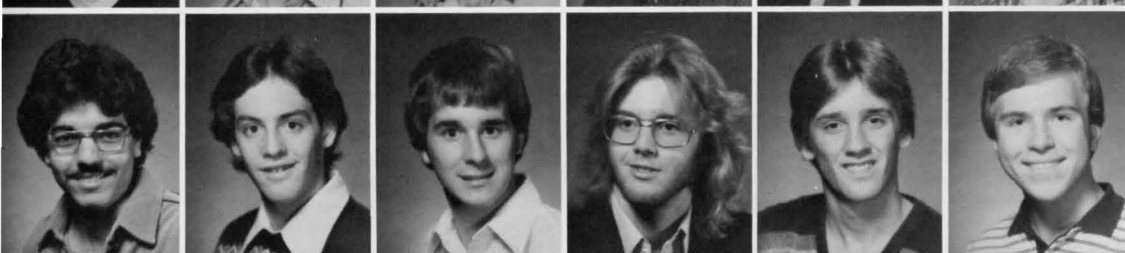




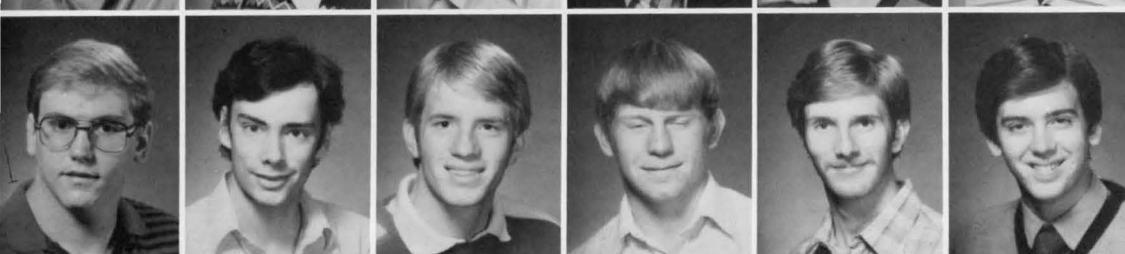
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Roger A. Davidson  
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Stanley M. DeHoff



Michael D. Demchak  
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Keith M. Dickerson  
Adam B. Dixon  
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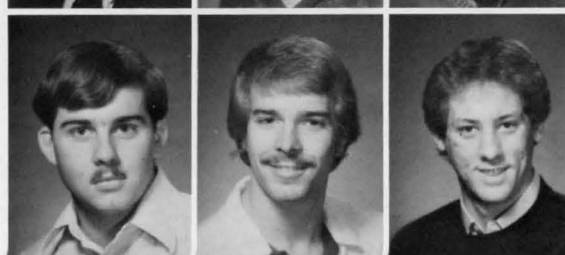
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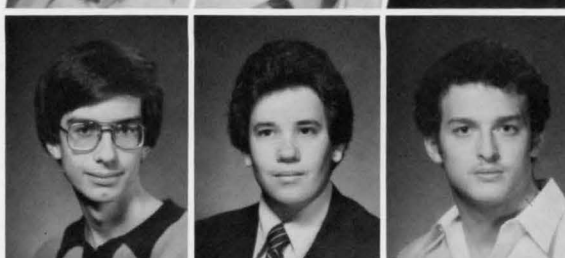
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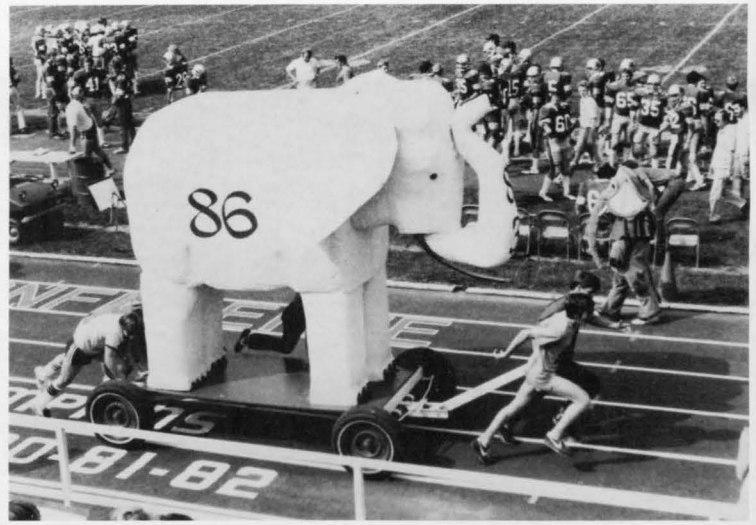
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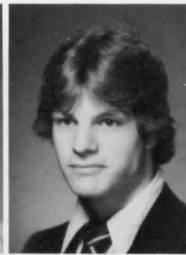
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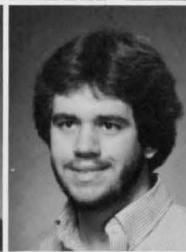
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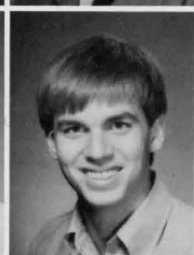
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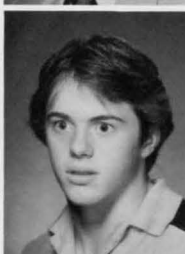
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Joseph P. Kersey  
David I. Kho



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Robert C. Kline, Jr.  
Dennis E. Koopman  
Richard N. Krahling  
Timothy J. Kropf



James M. Kulaga  
James A. Kweeder  
David L. Lakey  
Jeffrey M. Lambert  
Jeffrey D. Lancaster  
D. Scott Lands







Rodney A. Lauer  
 Paul D. Ledbetter  
 Paul D. Leeka  
 Bradd A. Lehmann  
 Ronald G. Linder  
 William A. Lindstaedt

Todd M. Loehr  
 W. Scott Loftus  
 Todd B. Lozier  
 Piero A. Madar  
 Steven J. Maier  
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David E. Martin  
 Michael T. Mathes  
 Larry A. Mattingly  
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 Ernest M. McDonald II  
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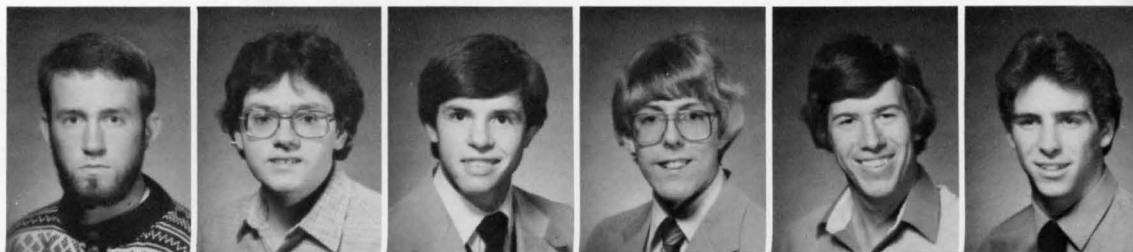
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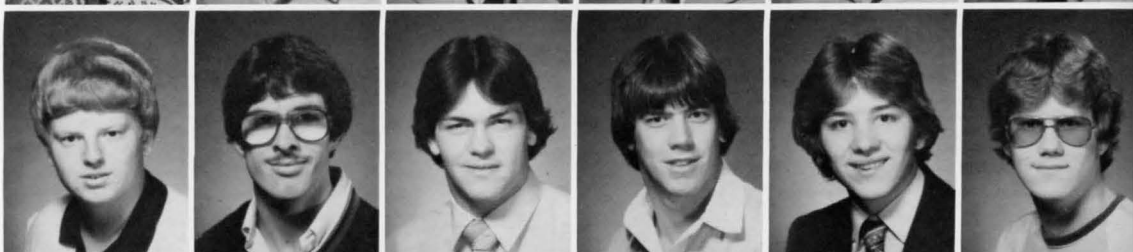
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 Bruce D. Pesch  
 Barry C. Peterson  
 Stanley Pittman II

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David S. Price  
George A. Puyana  
Stephen K. Rammelsberg  
Kenneth J. Rasche  
Harold T. Ray



Duane R. Reinholt  
P. Gary Reuland  
John G. Rhoades  
Todd R. Rice  
Kenneth Riggelman  
William R. Riggs



Jerry E. Ritchie  
Anthony J. Robertson  
Gary R. Rodmaker  
George H. Rogers  
Richard H. Root  
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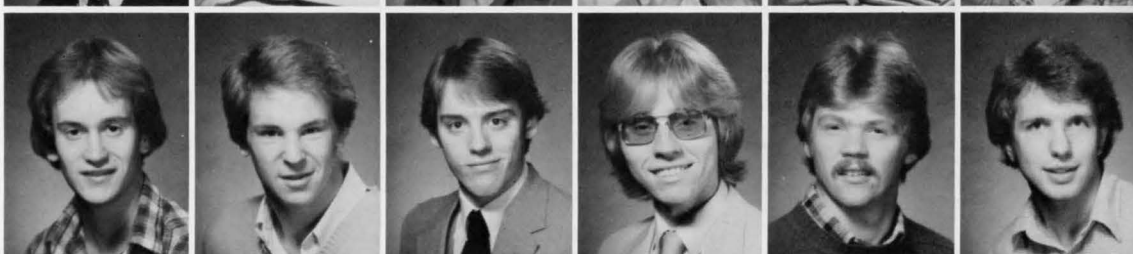
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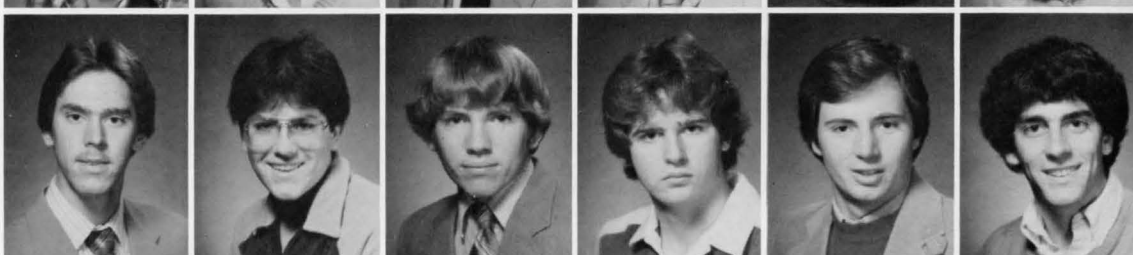
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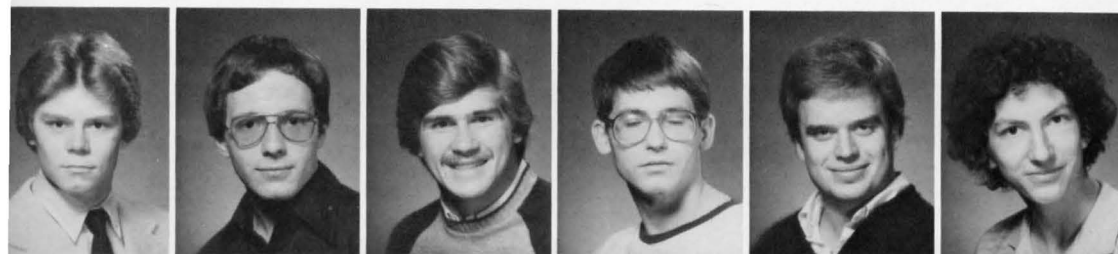


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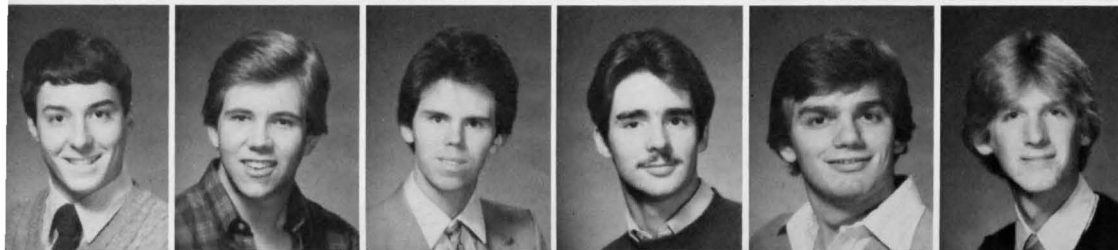


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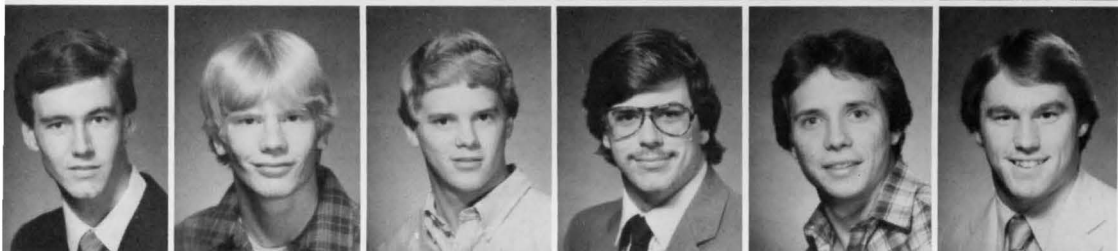




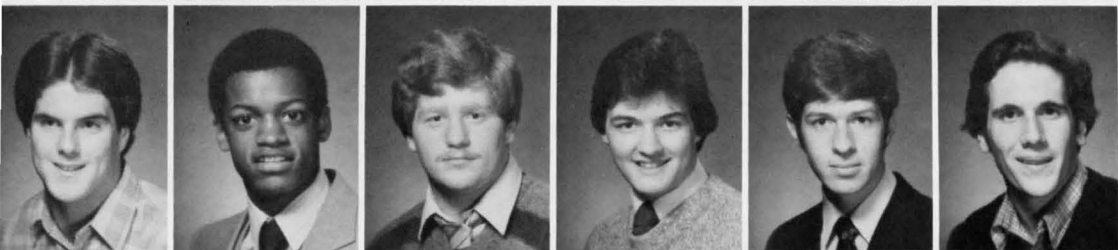
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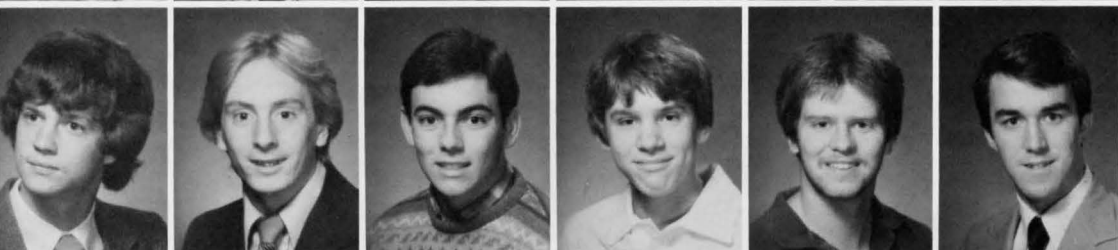
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James A. West  
Scott T. Wigand  
Scott B. Wilcoxson



Patrick P. Wildemann  
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William R. Willoughby  
Jon S. Winters  
John D. Wolf  
Kevin M. Wolfe



Dennis W. Worthington  
Robert W. Wright  
Scott C. Wright  
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David W. Zabel  
Christopher Zickmund



Brian D. Zweig

